# **CITY OF TORRANCE**

# PROPOSAL, SPECIFICATIONS, BOND AND AFFIDAVIT FOR THE CONSTRUCTION OF

# FY2011-12 SLURRY SEAL PROGRAM, I-119

B2013-21





TOUFIC (TED) SEMAAN Acting City Engineer

**APRIL 2013** 

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# SECTION A

**NOTICE INVITING BIDS** 

#### CITY OF TORRANCE, CALIFORNIA

#### NOTICE INVITING BIDS

Notice is hereby given that sealed bids for performing the following described work will be received at the Office of the City Clerk of the City of Torrance, California, **until 2:00 p.m. on Thursday, May 23, 2013**, after which time they will be publicly opened and read at 2:15 p.m. in the Council Chambers of said City:

#### CONSTRUCTION OF FY2011-12 SLURRY SEAL PROGRAM, I-119 B2013-21

Bid Schedule (for reference only), Plans and Specifications are available for viewing and printing on the City's website at: <a href="http://www.torranceca.gov/26073.htm">http://www.torranceca.gov/26073.htm</a>.

Those who only view and/or print the Plans, Bid Schedule and Specifications from the City's website will not automatically be added to the City's Plan Holder list for this project.

The official and required Bidder's Submittal packet must be obtained at the Office of the City Clerk, Torrance City Hall, 3031 Torrance Boulevard, Torrance, California (310) 618-2870. There is no cost if obtained at City Hall. A payment of \$5 is required if requested by mail. The amount includes tax and is not refundable. A prospective bidder must provide to the City Clerk the firm's name, mailing address, telephone and fax numbers, a contact person and a valid email address. This will ensure that your firm is listed as a "Plan Holder" and that you will be informed of any and all information issued subsequent to obtaining the official Bidder's Submittal. Addenda will be issued only by email and only to those that provide the required information to the City Clerk. Receipt of any Addendum must be acknowledged by a bidder in its submitted form of Proposal.

A bound Specifications booklet also may be obtained at the same Office of the City Clerk upon payment of \$10 if obtained at City Hall, or payment of \$15 if requested by mail. Both amounts include tax. Neither amount is refundable. The \$15 includes a copy of the official Bidder's Submittal packet. If requesting any item(s) by mail, please send check to the following:

CITY OF TORRANCE OFFICE OF THE CITY CLERK 3031 TORRANCE BLVD TORRANCE, CA 90509 ATTN: B2013-21

The Engineer's estimate of the contract total is between \$1,495,000 and \$1,595,000. All work shall be completed within sixty (60) working days from the date of the Notice to Proceed (NTP).

Per Division 2, Chapter 2 of the Torrance Municipal Code, the Torrance City Council may reject any and all bids, waive any informality or irregularity in such bids, and determine the lowest responsible bidder. No facsimile bids shall be accepted by the City.

Substitution of securities for withheld funds is permitted per Section 22300 of the Public Contract Code.

The City has determined that either a California Class A, Class C-12 or Class C-32 Contractor's license is required to bid this project.

Because Gas Tax funds will be used for this project, pursuant to Section 1770 et seq. of the California Labor Code, the minimum prevailing rate of per diem wages for each craft, classification, or type of workman needed to execute the Contract shall be those determined by the Director of Industrial Relations of the State of California. These wages are set forth in the General Prevailing Wage Rates for this project, available from the California Department of Industrial Relations' Internet web site at <a href="http://www.dir.ca.gov/DLSR/PWD">http://www.dir.ca.gov/DLSR/PWD</a>.

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By order of the City Council of the City of Torrance, California.

For further information, please contact Davina Buenavista, Associate Engineer, in the Public Works Department at (310) 618-3057 or by email at <a href="mailto:DBuenavista@TorranceCA.gov">DBuenavista@TorranceCA.gov</a>.

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# **SECTION B**

**INSTRUCTIONS TO BIDDERS** 

#### CITY OF TORRANCE, CALIFORNIA

#### **INSTRUCTIONS TO BIDDERS**

#### A. QUALIFICATION OF BIDDERS

#### 1. Competency of Bidders

The Bidder shall be thoroughly competent and capable of satisfactorily performing the Work covered by the Bid. As specified in the Bid Documents, the Bidder shall furnish statements of previous experience on similar work. When requested, the Bidder shall also furnish the plan of procedure proposed; the organization, machinery, plant and other equipment available for the Work; evidence of its financial condition and resources; and any other such documentation as may be required by the City to determine if the Bidder is responsible.

#### 2. Contractor's License

At the time of submitting the Bid, the Bidder shall be licensed as a Contractor in accordance with the provisions of Chapter 9, Division 3, of the California Business and Professions Code. The required prime Contractor license class for the Work is shown in the project Notice Inviting Bids. However, the City reserves the right to award the Contract to a Contractor with another class if the City determines that the license is proper for the work.

#### B. BIDDER RESPONSIBILITY

A responsible Bidder is a Bidder who has demonstrated the attribute of trustworthiness, as well as ability, fitness, capacity and experience to satisfactorily perform the work.

Bidders are notified that, in accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council may determine whether the Bidder is responsible based on a review of the Bidder's performance on other contracts.

If, based on the provision and criteria in Division 2, Chapter 2 of the Torrance Municipal Code, the Engineer proposes not to recommend the award of contract to the apparent low bidder, the Director shall notify the Bidder in writing of its intention to recommend to the City Council that the Council award the contract to the 2nd lowest responsible bidder. If the Bidder presents evidence in rebuttal to the recommendation, the Director shall evaluate the merits of such evidence, and based on that evaluation, make a recommendation to the City Council.

#### C. ADDENDA TO THE CONTRACT DOCUMENTS

The City may issue Addenda to the Contract Documents during the period of advertising. The Bidder shall acknowledge the receipt of the Addenda in their Bid. Failure of the Bidder to do so may result in the rejection of the Bid as non-responsive.

#### D. PREPARATION OF THE BID

#### 1. Examination of Site, Plans and Specifications

Prior to submitting a Bid, the Bidder shall examine the Work site, carefully read the Specifications, view the Plans (available on the website only) and satisfy itself that it has the abilities and resources to complete the Work. The Bidder agrees that if it is awarded the Contract, no claim will be made against the City based on ignorance or misunderstanding of the provisions of the Contract Documents, the nature and amount of the work, and the physical and climatic conditions of the work site.

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The Contractor shall have included in the contract price a sufficient sum to cover all items, including labor, materials, tools, equipment and incidentals, that are implied or required for the complete improvements as contemplated by the drawings, specifications, and other contract documents.

#### 2. Estimated Quantities

The quantities shown in the Bid are approximate only. The Contractor will be paid for the actual quantities of work installed based on field measurements. The City reserves the right to increase or decrease the amount of any item or portion of work to be performed or materials furnished, or to delete any item, in accordance with the Specifications.

#### 3. Bid Instructions and Submissions

The Bid shall be submitted on the Bidder's Submittal forms included with the Specifications. All Bid Documents must be completed, executed and submitted with the Bid by the Bidder.

Required Bid Submittal Documents:

- 1) Bidder's Submittal
- 2) Addenda Acknowledgment
- 3) Contractor's Affidavit
- 4) Bid Bond (10%)
- 5) List of Subcontractors
- 6) References (2 pages)
- 7) Violations of Federal or State Law
- 8) Debarment and Suspension Certification

All prices submitted will be considered as including any and all sales or use taxes. For any individual bid item, in the case of a discrepancy between its unit price and total bid, the unit price shall always prevail.

#### 4. Disadvantaged Business Enterprise (DBE) Requirements

This project has no DBE requirements.

#### E. BID BOND

The Bid must be accompanied by either cash, a certified or cashier's check or a surety bond (bid bond) payable to the City of Torrance. Bids must be submitted on the proposal forms furnished by the Public Works Department. The Bid Guaranty shall be in an amount equivalent to at least 10% of the Total Contract Bid Price.

#### F. NONRESPONSIVE BIDS AND BID REJECTION

- 1. A Bid in which the required bid proposal documents are not completed, executed and submitted may be considered non-responsive and be rejected.
- 2. A Bid in which the Contract Unit Prices are unbalanced, which is incomplete or which shows alteration of form or irregularities of any kind, or which contains any additions or conditional or alternate Bids that are not called for, may be considered non-responsive and be rejected.

#### G. AWARD OF CONTRACT

In accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council reserves the right to reject any and all bids received, to take all bids under advisement for a period not-to-

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exceed sixty (60) days after date of opening thereof, to waive any informality or irregularity in the Bid, and to be the sole judge of the merits of material included in the respective bids received.

#### H. EXECUTION OF CONTRACT

After the Contract is awarded, the awardee shall execute the following eight (8) documents:

- 1) Performance Bond (100% of Bid)
- 2) Labor and Material Bond (100% of Bid)
- 3) Public Works Agreement
- 4) Verification of Insurance Coverage (Certificates and Endorsements)
- 5) Construction or Service Contract Endorsement
- 6) Workers' Compensation Insurance Certificate
- 7) Construction Permit Application Form
- 8) Business License Application Form

#### I. APPRENTICESHIP EMPLOYMENT STANDARDS

The Contractor is directed to the provisions in Sections 1776, 1777.5 and 1777.6 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under them.

#### J. PERMITS, LICENSES AND PUBLIC WORKS AGREEMENT

The Contractor shall procure and execute all permits, licenses, pay all charges and fees, and give all notices necessary and incidental to the completion of the Work. The Contractor shall execute a Public Works Agreement. No fee is charged for a Construction Excavation Permit issued by the City of Torrance for a public works project. The Contractor shall obtain a City of Torrance Business License.

#### K. INSURANCE

The Contractor shall maintain Automobile Liability, General Liability and Workers' Compensation Insurance as specified in the Public Works Agreement included in the Project Specifications.

## L. PRE-BID INQUIRIES

A Bidder with a Pre-Bid Inquiry must submit their question(s) in writing to the Torrance Public Works Department. You may email it to Ms. Davina Buenavista, Associate Engineer at <a href="mailto:DBuenavista@torranceca.gov">DBuenavista@torranceca.gov</a>. All questions must be received no later than 5:00 p.m. on the <a href="mailto:Thursday one week prior to the date for opening the bids">Thursday one week prior to the date for opening the bids</a>. Questions received after this date may not be considered. For questions of a general nature, a bidder may call Ms. Davina Buenavista at (310) 618-3507.

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# **SECTION C**

**BID DOCUMENT** 

#### **BIDDER'S SUBMITTAL**

COMPANY:	<u>:</u>	

# FY2011-12 SLURRY SEAL PROGRAM, I-119 B2013-21

Honorable Mayor and Members of the Torrance City Council Torrance, California

Members of the Council:

In accordance with the Notice Inviting Bids pertaining to the receiving of sealed proposals by the City Clerk of the City of Torrance for the above titled improvement, the undersigned hereby proposes to furnish all Work to be performed in accordance with the Plans, Specifications, Standard Drawings, and the Contract Documents, for the unit price or lump sum set forth in the following schedule.

#### **BID SCHEDULES**

# BID SCHEDULE A – RESIDENTIAL STREETS (AREAS A THRU D)

ITEM NO.	ITEM DESCRIPTION	APPROX. QTY	UNIT OF MEASURE	UNIT PRICE	TOTAL BID
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$	\$
2	TRAFFIC CONTROL	1	LS	\$	\$
3	CRACK SEAL	1	LS	\$	\$
4	CAPE SEAL (CHIP SEAL & TYPE II SLURRY SEAL WITH 2-1/2% LATEX)	1,393,500	SF	\$	\$
5	TYPE II SLURRY SEAL WITH 2-1/2% LATEX	3,901,000	SF	\$	\$
6	REMOVE EXISTING PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS	1	LS	\$	\$
7	INSTALL PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS	1	LS	\$	\$

SCHEDULE "A" SUBTOTAL:	\$
	(FIGURES)*
SCHEDULE "A" SUBTOTAL:	
	(WORDS)*

# \*BID MAY BE REJECTED IF SUBTOTAL BID IS NOT SHOWN IN FIGURES AND WORDS

NOTE: Include above subtotal in the Total Bid Price for this project on page C-3.

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# **BIDDER'S SUBMITTAL- B2013-21**

(CONTINUED)

COMPANY		

# BID SCHEDULE B – CITY PARKING FACILITIES (8 LOCATIONS)

ITEM NO.	ITEM DESCRIPTION	APPROX. QTY	UNIT OF MEASURE	UNIT PRICE	TOTAL BID
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$	\$
2	TRAFFIC CONTROL	1	LS	\$	\$
3	CRACK SEAL	1	LS	\$	\$
4	TYPE II SLURRY SEAL WITH 2-1/2% LATEX (AREAS 4 THROUGH 8)	128,000	SF	\$	\$
4A	TYPE II SLURRY SEAL WITH 2-1/2% LATEX AT CITY YARD AREAS 1 & 2 AND CITY HALL AREA 3 (CLOSED FRIDAY AND SATURDAYS ONLY)	302,000	SF	\$	\$
5	REMOVE EXISTING PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS	1	LS	\$	\$
6	INSTALL PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS	1	LS	\$	\$
6A	INSTALL PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS AT CITY YARD AREAS 1 & 2 AND CITY HALL AREA 3 (CLOSED FRIDAY AND WEEKENDS ONLY)	1	LS	\$	\$
7	REMOVE AND DISPOSE EXIST WOOD WHEEL STOPS (Approx. 50 LF)	1	LS	\$	\$
8	REMOVE, STORE, AND REINSTALL EXIST CONCRETE WHEEL STOPS (Approx. 63)	1	LS	\$	\$
9	FURNISH AND INSTALL NEW CONCRETE WHEEL STOPS	50	EA	\$	\$

SCHEDULE "B" SUBTOTAL:	\$
	(FIGURES)*
SCHEDULE "B" SUBTOTAL:	
	(WORDS)*

# \*BID MAY BE REJECTED IF SUBTOTAL BID IS NOT SHOWN IN FIGURES AND WORDS

NOTE: Include above subtotal in the Total Bid Price for this project on page C-3.

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# **BIDDER'S SUBMITTAL - B2013-21**

(CONTINUED)

COMPANY:			
The Total Bid Price below shall include the 2 subtotals of Schedules A and B.			
TOTAL BID PRICE FOR SCHEDULES A + B:			
(FIGURES)*			
TOTAL BID PRICE FOR SCHEDULES A + B:			
(WORDS)*			
*BID MAY BE REJECTED IF SUBTOTAL BID IS NOT SHOWN IN FIGURES AND WORDS			
The undersigned furthermore agrees to enter into and execute a contract, with necessary bonds, at the unit prices set forth herein and in case of default in executing such contract, with necessary bonds, the check or bond accompanying this bid and the money payable thereon shall be forfeited thereby to and remain the property of the City of Torrance.  The above unit prices include all work appurtenant to the various items as outlined in the Specifications and all work or expense required for the satisfactory completion of said items. In case of discrepancies between unit prices and totals, the unit prices shall govern.  The undersigned declares that it has carefully examined the Plans, Specifications, and Contract Documents, and has investigated the site of the work and is familiar with the conditions thereon.			
Contractor:			
Date: By:			
Contractor's State License No.: Class:			
Address:			
Phone: Fax:			

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# **ACKNOWLEDGMENT OF ADDENDA RECEIVED - B2013-21**

The Bidder shall acknowledge the receipt of any and all addenda by placing an "X" by each addendum received.

Addendum No.	1
Addendum No.	2
Addendum No.	3
Addendum No.	4
Addendum No.	5
If an addendum or addenda have been issued received by the Bidder, the Bid Proposal may be	•
Bidder's Signature	 Date

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#### **CONTRACTOR'S AFFIDAVIT**

STA	ATE OF CALIFORNIA	} B2013-21
CO	UNTY OF	}
	(NAME)	, being first duly sworn, deposes and says:
1.	That he/she is the	(TITLE)
	of(NAME OF PARTNERSHII	P, CORPORATION, OR SOLE PROPRIETORSHIP)

hereinafter called "Contractor," who has submitted to the City of Torrance a proposal for the Construction of FY2011-12 Slurry Seal Program, I-119, B2013-21;

- 2. That said proposal is genuine; that the same is not sham; that all statement of facts therein are true;
- 3. That such proposal was not made in the interest or behalf of any person, partnership, company, association, organization or corporation not named or disclosed;
- 4. That the Contractor did not, directly or indirectly, induce, solicit or agree with anyone else to submit a false or sham bid, to refrain from bidding, or to withdraw the bid, to raise or fix the bid price of the Contractor or anyone else, or to raise or fix any overhead, profit or cost element of the Contractor's price or the price of anyone else; and did not attempt to induce action prejudicial to the interest of the City of Torrance, or of any other bidder, or anyone else interested in the proposed contract;
- 5. That the Contractor has not in any manner sought by collusion to secure for itself an advantage over any other bidder or to induce action prejudicial to the interests of the City of Torrance, or of any other bidder or of anyone else interested in the proposed contract;
- 6. That the Contractor has not accepted any bid from any subcontractor or materialman through any bid depository, the bylaws, rules or regulations of which prohibit or prevent the Contractor from considering any bid from any subcontractor or materialman, which is not processed through said bid depository, or which prevent any subcontractor or materialman from bidding to any Contractor who does not use the facilities of or accept bids from or through such bid depository;

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## **CONTRACTOR'S AFFIDAVIT**

(CONTINUED)

7. That the Contractor did not, directly or indirectly, submit the Contractor's bid price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of Individuals, except to the City of Torrance, or to any person or persons who have a partnership or other financial interest with said Contractor in its business.

Dated this	day of	, 20
Subscribed and Sworr before me this	day	(CONTRACTOR'S SIGNATURE)
OI	, 20	(NAME)
		(/
Notary Public in and for County and State.	or said	(TITLE)
(SFAL)	1	

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# **BID BOND (10%)**

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## LIST OF SUBCONTRACTORS

The Bidder is required to fill in the following blanks in accordance with the provisions of the Subletting and Subcontracting Fair Practices Act (Chapter 2 of Division 5, Title 1 of the Government Code of the State of California) and should familiarize itself with Section 2-3 of the Standard Specifications.

Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  CA License Classification/Type:	Name Under Which Subcontractor is Lie	censed:
Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Specific Description of Sub-Contract:  License Number:  Specific Description of Sub-Contract:  Subcontractor's Address:  Specific Description of Sub-Contract:		
License Number: CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:		
Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  Subcontractor's Address:  Specific Description of Sub-Contract:		
Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  Subcontractor's Address:  Specific Description of Sub-Contract:		
Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	Name Under Which Subcontractor is Lie	censed:
License Number: CA License Classification/Type:  Name Under Which Subcontractor is Licensed: Subcontractor's Address: Specific Description of Sub-Contract: License Number: CA License Classification/Type:  Name Under Which Subcontractor is Licensed: Subcontractor's Address: Specific Description of Sub-Contract:	Subcontractor's Address:	
Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	Specific Description of Sub-Contract: _	
Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	License Number:	CA License Classification/Type:
Subcontractor's Address:  Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:		
Specific Description of Sub-Contract:  License Number:  CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	Name Under Which Subcontractor is Lie	censed:
License Number: CA License Classification/Type:  Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	Subcontractor's Address:	
Name Under Which Subcontractor is Licensed:  Subcontractor's Address:  Specific Description of Sub-Contract:	Specific Description of Sub-Contract: _	
Subcontractor's Address:  Specific Description of Sub-Contract:	License Number:	CA License Classification/Type:
Subcontractor's Address:  Specific Description of Sub-Contract:		
Subcontractor's Address:  Specific Description of Sub-Contract:	Name Under Which Subcontractor is Lie	censed:
Specific Description of Sub-Contract:		
License Number: CA License Classification/Type:		
	License Number:	CA License Classification/Type:

Subcontractors listed must be properly licensed under the laws of the State of California for the type of work which they are to perform. Do not list alternate subcontractors for the same work.

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# **REFERENCES**

List work similar in magnitude and degree of difficulty completed by the Contractor within the past three (3) years.

1.	Name (Firm/Agency):								
	Address:								
	Contact Person:	Telephone No.:	_						
	Title of Project:								
	Project Location:								
	Date of Completion:	Contract Amount: \$							
2.	Name (Firm/Agency):								
	Address:								
	Contact Person:	Telephone No.:							
	Title of Project:	·							
	Project Location:								
	Date of Completion:	Contract Amount: \$							
3.	Name (Firm/Agency):								
Ο.	Name (Firm/Agency):								
	Address:Contact Person:	Telephone No.:	_						
			_						
	Title of Project: Project Location:		_						
	Date of Completion:	Contract Amount: \$							
	Date of Completion.		_						
4.	Name (Firm/Agency):								
	Address:								
	Contact Person:	Telephone No.:							
	Title of Project:								
	Project Location:								
	Date of Completion:								
5.	Namo (Firm/Agonov):								
J.	Name (Firm/Agency):Address:		_						
	Address:Contact Person:	Telephone No.:							
	Title of Project:Project Location:		_						
	Date of Completion:	Contract Amount: \$							
	Date of Completion.	σοιπαστ <i>ε</i> πιτοστιτ. ψ							

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## **REFERENCES**

(CONTINUED)

If Contractor has not performed work for the City of Torrance within the last five (5) years, list all work done within said five years (attach additional sheets if necessary). Note if work was done as subcontractor [include only subcontract amount]:

Wo	ork Description & Contract A	Amount	Agency	Date Completed
Contra	actor's License No.:		_ Class:	
a.	Date first obtained:		_ Expiration:	
b.	Has License ever been su If yes, describe when and	·		
C.	Any current claims agains If yes, describe claims:			
<u>Princi</u>	pals in Company (List all –	attach additional sheef	ts if necessary):	
	NAME	TITLE		LICENSE NO. (If Applicable)

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# **VIOLATIONS OF FEDERAL, STATE OR LOCAL LAWS**

within the pa	st five (5) years relating to your cons	struction projects?
Yes/No:	Federal/State:	
If "yes," ider	ntify and describe, (including agency	and status):
	nalties been paid? Yes/No:	
Does your f	irm or its officers have any ongo plations of the State Labor Code, Ca	ing investigations by any public age
Does your f regarding vic State Licensi	firm or its officers have any ongo plations of the State Labor Code, Ca ing Laws?	ing investigations by any public age lifornia Business and Professions Cod Section/Article:
Does your fregarding vic State Licensi Yes/No:	irm or its officers have any ongo plations of the State Labor Code, Ca ing Laws? Code/Laws:	ing investigations by any public age lifornia Business and Professions Cod

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#### DEBARMENT AND SUSPENSION CERTIFICATION

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal AGENCY;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal AGENCY within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating AGENCY, and dates of action.

**Notes:** Providing false information may result in criminal prosecution or administrative sanctions.

The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

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# **SECTION D**

DOCUMENTS TO BE COMPLETED AND DELIVERED TO CITY PRIOR TO AWARD OF CONTRACT

#### PERFORMANCE BOND

#### **KNOW ALL MEN BY THESE PRESENTS:**

That we,			as Pr	ıncıpal(s)	and					_ a
corporation,	incorporated,	organized,	and	existing	under	the	laws	of the	State	of
	, a	ınd authorize	ed to e	xecute I	bonds a	and u	ndertak	kings ar	id to do	o a
general sure	y business in t	the State of C	Californ	ia, as Sι	ırety, ar	e join	ly and	several	ly held a	and
firmly bound	unto the City	of Torrance,	a muni	cipal cor	poration	n, loca	ited in	the Cou	unty of I	_os
Angeles, Sta	te of California	, in the full a	nd just	sum of:					Doll	ars
(\$	), la	awful money	of the	United	States of	of Am	erica, f	for the p	payment	of
	vell and truly to s, representati									
have/has ent	TION OF THIS	are/is about t	o ente	r into, a	certain	writte	n cont	ract or a	agreeme	ent,
	the									
	the Construction						•	•		
	pecifically set fe eunto attached part hereof;				•					

**NOW, THEREFORE**, if the said Principal(s) shall faithfully and well and truly do, perform and complete, or cause to be done, performed and complete, each and all of the covenants, terms, conditions, requirements, obligations, acts and things, to be met, done or performed by said Principal(s), including any guarantee period as set forth in, or required by, said contract or agreement, all at and within the time or times, and in the manner as therein specified and contemplated, then this bond and obligation shall be null and void; otherwise it shall be and remain in full force, virtue and effect.

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration or addition to said contract or agreement, or of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or item or items of performance required therein or thereunder.

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## PERFORMANCE BOND

(CONTINUED)

In the event any suit, action or proceedings is instituted to recover on this bond or obligation, said Surety will pay, and does hereby agree to pay, as attorney's fees for said City, such sum as the Court in any such suit, action or proceeding may adjudge reasonable.

EXECUTED, SEALED AND DATED this	day of	, 20
CORPORATE SEAL	PRINCIPAL(S):	
	BY	
	BY	
CORPORATE SEAL	SURETY:	
	BY	

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# LABOR AND MATERIAL BOND

# KNOW ALL MEN BY THESE PRESENTS:

That	we, as Principal(s)
and	a corporation, incorporated,
orga	nized, and existing under the laws of the State of, and authorized
	xecute bonds and undertakings and to do a general surety business in the State of ornia, as Surety, are jointly and severally held and firmly bound unto:
(a)	The State of California for the use and benefit of the State Treasurer, as ex-officio Treasurer and custodian of the Unemployment Fund of said State; and
(b)	The City of Torrance, California; and
(c)	Any and all persons who do or perform or who did or performed work or labor upon or in connection with the work or improvement referred to in the contract or agreement hereinafter mentioned; and
(d)	Any and all materialmen, persons, companies, firms, association, or corporations, supplying or furnishing any materials, provisions, provender, transportation, appliances or power, or other supplies used in, upon, for or about or in connection with the performance of the work or improvement contracted to be executed, done, made or performed under said contract or agreement; and
(e)	Any and all persons, companies, firms, associations, or corporations furnishing, renting, or hiring teams, equipment, implements or machinery for, in connection with, or contributing to, said work to be done or improvement to be made under said contract or agreement; and
(f)	Any and all persons, companies, firms, associations, or corporations who supply both work and materials;
	whose claim has not been paid by said Principal(s), in full and just sum of Dollars (\$), lawful money of the United States of America, ne payment of which will and truly to be made, said Principal(s) and said Surety do hereby
bind	themselves and their respective heirs, executors, administrators, representatives, sessors and assigns, jointly and severally, firmly by these presents.

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#### LABOR AND MATERIAL BOND

(CONTINUED)

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, THAT: WHEREAS, said Principal(s) have/has entered into or are/is about to enter into a certain written contract or agreement, dated as of the \_\_\_\_\_\_ day of \_\_\_\_\_\_ 20\_\_\_\_\_, with the City of Torrance for the Construction of FY2011-12 RESIDENTIAL SLURRY SEAL, I-119, B2013-21, all as is more specifically set forth in said contract or agreement, a full, true and correct copy of which is hereunto attached, and hereby referred to and by this reference incorporated herein and made a part hereof;

**NOW, THEREFORE,** if the said Principal(s) (or any of his/her, its, or their subcontractors) under said contract or agreement fails or fail to pay:

- (1) For any materials, provisions, provender, transportation, appliances, or power, or other supplies; or
- (2) For the hire of any teams, equipment, implements, or machinery; or
- (3) For any work or labor; supplies, furnished, provided, used, done or performed in, upon, for or about or in connection with the said work or improvement; or
- (4) For amounts due under the Unemployment Insurance Act of the State of California with respect to such work or improvement;

the Surety on this bond will pay the same in an amount not exceeding the sum hereinabove specified in this bond; and, also, in case suit is brought upon this bond, said Surety will (and does hereby agree to) pay a reasonable attorney's fee, to be fixed and taxed as costs, and included in the judgment therein rendered.

This bond shall (and it is hereby made to) inure to the benefit of any and all persons entitled to file claims under Section 1192.1 of the Code of Civil Procedure of the State of California, so as to give a right of action to them or their assigns in any suit brought upon this bond, all as contemplated under the provisions of Section 4205 of the Government Code, and of Chapter 1 of Title 4 of Part 3 of the Code of Civil Procedure, of the State of California.

This bond is executed and filed in connection with said contract or agreement hereunto attached to comply with each and all of the provisions of the laws of the State of California above mentioned or referred to, and of all amendments thereto, and the obligors so intend and do hereby bind themselves accordingly.

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## LABOR AND MATERIAL BOND

(CONTINUED)

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration, or addition to said contract or agreement, or of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or items of performance required therein or thereunder.

EXECUTED, SEALED AND DATED this	day of	, 20
CORPORATE SEAL	PRINCIPAL:	
	BY	
CORPORATE SEAL	SURETY:	
	BY	

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#### **PUBLIC WORKS AGREEMENT**

This	PUB	BLIC	WORKS	AGF	REEMENT	("Agr	eem	ent")	is	made	and	entere	d into	as	of
								,	20	013 (th	e "Ef	fective	Date"),	by a	and
betwe	en	the	CITY	OF	TORRAN	ICE,	а	mun	icipa	al co	rporat	tion (	"CITY")	), į	and
						("CON	١TR	ACTO	R").						

#### **RECITALS:**

- **A.** The CITY wishes to retain the services of an experienced and qualified CONTRACTOR to apply slurry seal to selected streets; and
- **B.** In order to obtain the desired services, The CITY has circulated a Notice Inviting Bids for the construction of FY2011-12 SLURRY SEAL PROGRAM, I-119, Notice Inviting Bids No. B2013-21 (the "NIB"); and
- C. CONTRACTOR has submitted a Bid (the "Bid") in response to the NIB. CONTRACTOR represents that it is qualified to perform those services requested in the Plans and Specifications. Based upon its review of all Bids submitted in response to the NIB, The CITY is willing to award the contract to CONTRACTOR.

#### AGREEMENT:

#### 1. SERVICES TO BE PERFORMED BY CONTRACTOR

CONTRACTOR will provide the services and install those materials listed in the Plans and Specifications, which are on file in the Public Works Department. The NIB and the Plans and Specifications are made a part of this Agreement. A copy of the Bid is attached as Exhibit A.

#### 2. TERM

Unless earlier terminated in accordance with Paragraph 4 below, this Agreement will continue in full force and effect for 12 months from the Effective Date.

## 3. **COMPENSATION**

A. CONTRACTOR's Fee.

For services rendered pursuant to this Agreement, CONTRACTOR will be paid in accordance with CONTRACTOR's Bid; provided, however, that in no event will the total amount of money paid the CONTRACTOR, for services initially contemplated by this Agreement, exceed the sum of \$\_\_\_\_\_\_ ("Agreement Sum"), unless otherwise first approved in writing by the CITY.

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#### B. Schedule of Payment.

Provided that the CONTRACTOR is not in default under the terms of this Agreement, upon presentation of an invoice, CONTRACTOR will be paid monthly, within 30 days after the date of the monthly invoice.

#### 4. TERMINATION OF AGREEMENT

- A. Termination by CITY for Convenience.
  - 1. CITY may, at any time, terminate the Agreement for CITY's convenience and without cause.
  - 2. Upon receipt of written notice from CITY of such termination for CITY's convenience, CONTRACTOR will:
    - a) cease operations as directed by CITY in the notice;
    - b) take actions necessary, or that CITY may direct, for the protection preservation of the work; and
    - c) except for work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
  - In case of such termination for CITY's convenience, CONTRACTOR will be entitled to receive payment for work executed; and costs incurred by reason of such termination, along with reasonable overhead and profit on the work not executed.

#### B. Termination for Cause.

- 1. If either party fails to perform any term, covenant or condition in this Agreement and that failure continues for 15 calendar days after the nondefaulting party gives the defaulting party notice of the failure to perform, this Agreement may be terminated for cause; provided, however, that if during the notice period the defaulting party has promptly commenced and continues diligent efforts to remedy the default, the defaulting party will have such additional time as is reasonably necessary to remedy the default.
- 2. In the event this Agreement is terminated for cause by the default of the CONTRACTOR, the CITY may, at the expense of the CONTRACTOR and its surety, complete this Agreement or cause it to be completed. Any check or bond delivered to the CITY in connection with this Agreement, and the money payable thereon, will be forfeited to and remain the property of the CITY. All moneys due the CONTRACTOR under the terms of this Agreement will be retained by the CITY, but the retention will not release the CONTRACTOR and its surety from liability for the default. Under these circumstances, however, the CONTRACTOR and its surety will be credited with the amount of money retained, toward any amount by which the cost of completion exceeds the Agreement Sum and any amount authorized for extra services.

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3. Termination for cause will not affect or terminate any of the rights of the CITY as against the CONTRACTOR or its surety then existing, or which may thereafter accrue because of the default; this provision is in addition to all other rights and remedies available to the CITY under law.

#### C. Termination for Breach of Law.

In the event the CONTRACTOR or any of its officers, directors, shareholders, employees, agents, subsidiaries or affiliates is convicted (i) of a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of a contract or subcontract; (ii) under state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a public consultant or Contractor; (iii) under state or federal antitrust statutes arising out of the submission of bids or proposals; or (iv) of violation of Paragraph 19 of this Agreement; or for any other cause the CITY determines to be so serious and compelling as to affect CONTRACTOR's responsibility as a public consultant or Contractor, including but not limited to, debarment by another governmental agency, then the CITY reserves the unilateral right to terminate this Agreement or to impose such other sanctions (which may include financial sanctions, temporary suspensions or any other condition deemed appropriate short of termination) as it deems proper. The CITY will not take action until CONTRACTOR has been given notice and an opportunity to present evidence in mitigation.

### 5. FORCE MAJEURE

If any party fails to perform its obligations because of strikes, lockouts, labor disputes, embargoes, acts of God, inability to obtain labor or materials or reasonable substitutes for labor or materials, governmental restrictions, governmental regulations, governmental controls, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, or other causes beyond the reasonable control of the party obligated to perform, then that party's performance shall be excused for a period equal to the period of such cause for failure to perform.

# 6. <u>RETENTION OF FUNDS</u>

CONTRACTOR authorizes the CITY to deduct from any amount payable to CONTRACTOR (whether or not arising out of this Agreement) any amounts the payment of which may be in dispute or that are necessary to compensate the CITY for any losses, costs, liabilities, or damages suffered by the CITY, and all amounts for which the CITY may be liable to third parties, by reason of CONTRACTOR's negligent acts or omissions or willful misconduct in performing or failing to perform CONTRACTOR's obligations under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by CONTRACTOR, or any indebtedness exists that appears to be the basis for a claim of lien, the CITY may withhold from any payment due, without liability for interest because of the withholding, an amount sufficient to cover the claim. The failure of the CITY to exercise the right to deduct or to withhold will not, however, affect the obligations of CONTRACTOR to insure, indemnify, and protect the CITY as elsewhere provided in this Agreement.

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#### 7. THE CITY'S REPRESENTATIVE

The Public Works Director is designated as the "City Representative," authorized to act in its behalf with respect to the work and services specified in this Agreement and to make all decisions in connection with this Agreement. Whenever approval, directions, or other actions are required by the CITY under this Agreement, those actions will be taken by the City Representative, unless otherwise stated. The City Manager has the right to designate another City Representative at any time, by providing notice to CONTRACTOR.

# 8. CONTRACTOR REPRESENTATIVE(S)

The following principal(s) of CONTRACTOR are designated as being the principal(s) and representative(s) of CONTRACTOR authorized to act in its behalf with respect to the work specified in this Agreement and make all decisions in connection with this Agreement:

\_\_\_\_\_

# 9. INDEPENDENT CONTRACTOR

The CONTRACTOR is, and at all times will remain as to the CITY, a wholly independent Contractor. Neither the CITY nor any of its agents will have control over the conduct of the CONTRACTOR or any of the CONTRACTOR's employees, except as otherwise set forth in this Agreement. The CONTRACTOR may not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of the CITY.

## 10. BUSINESS LICENSE

The CONTRACTOR must obtain a City business license prior to the start of work under this Agreement, unless CONTRACTOR is qualified for an exemption.

## 11. OTHER LICENSES AND PERMITS

CONTRACTOR warrants that it has all professional, contracting and other permits and licenses required to undertake the work contemplated by this Agreement.

#### 12. FAMILIARITY WITH WORK

By executing this Agreement, CONTRACTOR warrants that CONTRACTOR (a) has thoroughly investigated and considered the scope of services to be performed, (b) has carefully considered how the services should be performed, and (c) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, CONTRACTOR warrants that CONTRACTOR has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services set forth in this Agreement. Should CONTRACTOR discover any latent or unknown conditions that will materially affect the performance of the services set forth in this Agreement, CONTRACTOR must immediately inform the CITY of that fact and may not proceed except at CONTRACTOR's risk until written instructions are received from the CITY.

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#### 13. CARE OF WORK

CONTRACTOR must adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and other components to prevent losses or damages, and will be responsible for all damages, to persons or property, until acceptance of the work by the CITY, except those losses or damages as may be caused by the CITY's own negligence.

### 14. CONTRACTOR'S ACCOUNTING RECORDS; OTHER PROJECT RECORDS

Records of the CONTRACTOR's time pertaining to the project, and records of accounts between the CITY and the CONTRACTOR, will be kept on a generally recognized accounting basis. CONTRACTOR will also maintain all other records, including without limitation specifications, drawings, progress reports and the like, relating to the project. All records will be available to the CITY during normal working hours. CONTRACTOR will maintain these records for three years after final payment.

# 15. <u>INDEMNIFICATION</u>

CONTRACTOR will indemnify, defend, and hold harmless CITY, the City Council, each member thereof, present and future, its officers, agents and employees from and against any and all liability, expenses, including defense costs and legal fees, and claims for damages whatsoever, including, but not limited to, those arising from breach of contract, bodily injury, death, personal injury, property damage, loss of use, or property loss however the same may be caused and regardless of the responsibility for negligence. The obligation to indemnify, defend and hold harmless includes, but is not limited to, any liability or expense, including defense costs and legal fees, arising from the negligent acts or omissions, or willful misconduct of CONTRACTOR, its officers, employees, agents, subcontractors or vendors. It is further agreed, CONTRACTOR's obligations to indemnify, defend and hold harmless will apply even in the event of concurrent negligence on the part of CITY, the City Council, each member thereof, present and future, or its officers, agents and employees, except for liability resulting solely from the negligence or willful misconduct of CITY, its officers, employees or agents. Payment by CITY is not a condition precedent to enforcement of this indemnity. In the event of any dispute between CONTRACTOR and CITY, as to whether liability arises from the sole negligence of the CITY or its officers, employees, agents, subcontractors or vendors, CONTRACTOR will be obligated to pay for CITY's defense until such time as a final judgment has been entered adjudicating the CITY as solely negligent. CONTRACTOR will not be entitled in the event of such a determination to any reimbursement of defense costs including but not limited to attorney's fees, expert fees and costs of litigation.

# 16. NON-LIABILITY OF THE CITY'S OFFICERS AND EMPLOYEES

No officer or employee of the CITY will be personally liable to CONTRACTOR, in the event of any default or breach by the CITY or for any amount that may become due to CONTRACTOR.

#### 17. INSURANCE

A. CONTRACTOR must maintain at its sole expense the following insurance, which will be full coverage not subject to self insurance provisions:

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- 1. Automobile Liability, including owned, non-owned and hired vehicles, with at least the following limits of liability:
  - a) Combined single limits of \$2,000,000 per occurrence.
- B. General Liability including coverage for premises, products and completed operations, independent Contractors, personal injury and contractual obligations with combined single limits of coverage of at least \$3,000,000 per occurrence, with an annual aggregate of no less than \$5,000,000.
- C. Workers' Compensation with limits as required by the State of California and Employers Liability with limits of at least \$3,000,000.
- D. The insurance provided by CONTRACTOR will be primary and non-contributory.
- E. The CITY of Torrance, the City Council and each member thereof, members of boards and commissions, every officer, agent, official, employee and volunteer, and the Consulting Engineer, must be named as additional insureds under the automobile and general liability policies.
- F. CONTRACTOR must provide certificates of insurance and/or endorsements to the City Clerk of the City of Torrance before the commencement of work.
- G. Each insurance policy required by this Paragraph must contain a provision that no termination, cancellation or change of coverage can be made without thirty days notice to the CITY.
- H. CONTRACTOR must include all subcontractors as insureds under its policies or must furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors will be subject to all of the requirements of this Paragraph 17.

#### 18. SUFFICIENCY OF INSURERS

Insurance required by this Agreement will be satisfactory only if issued by companies admitted to do business in California, rated "B+" or better in the most recent edition of Best's Key Rating Guide, and only if they are of a financial category Class VII or better, unless these requirements are waived by the Risk Manager of the CITY ("Risk Manager") due to unique circumstances. In the event the Risk Manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the CITY, the CONTRACTOR agrees that the minimum limits of any insurance policies and/or the performance bond required by this Agreement may be changed accordingly upon receipt of written notice from the Risk Manager; provided that CONTRACTOR will have the right to appeal a determination of increased coverage by the Risk Manager to the City Council of the CITY within 10 days of receipt of notice from the Risk Manager.

#### 19. CONFLICT OF INTEREST

A. No officer or employee of the CITY may have any financial interest, direct or indirect, in this Agreement, nor may any officer or employee participate in any decision relating to the Agreement that effects the officer or employee's financial interest or the financial interest of any corporation, partnership or association in

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- which the officer or employee is, directly or indirectly interested, in violation of any law, rule or regulation.
- B. No person may offer, give, or agree to give any officer or employee or former officer or employee, nor may any officer or employee solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any way pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal.

# 20. NOTICE

- A. All notices, requests, demands, or other communications under this Agreement will be in writing. Notice will be sufficiently given for all purposes as follows:
  - 1. Personal delivery. When personally delivered to the recipient: notice is effective on delivery.
  - First Class mail. When mailed first class to the last address of the recipient known to the party giving notice: notice is effective three mail delivery days after deposit in an United States Postal Service office or mailbox.
  - 3. Certified mail. When mailed certified mail, return receipt requested: notice is effective on receipt, if delivery is confirmed by a return receipt.
  - 4. Overnight delivery. When delivered by an overnight delivery service, charges prepaid or charged to the sender's account: notice is effective on delivery, if delivery is confirmed by the delivery service.
  - 5. Facsimile transmission. When sent by fax to the last fax number of the recipient known to the party giving notice: notice is effective on receipt. Any notice given by fax will be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.
  - 6. Addresses for purpose of giving notice are as follows:

CONTRACTOR:	
	Fax:
CITY:	City Clerk
	City of Torrance
	3031 Torrance Boulevard
	Torrance, CA 90509-2970
	Fax: (310) 618-2931

B. Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified, will be deemed effective as of the

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first date the notice was refused, unclaimed or deemed undeliverable by the postal authorities, messenger or overnight delivery service.

C. Either party may change its address or fax number by giving the other party notice of the change in any manner permitted by this Agreement.

### 21. PROHIBITION AGAINST ASSIGNMENT AND SUBCONTRACTING

This Agreement and all exhibits are binding on the heirs, successors, and assigns of the parties. The Agreement may not be assigned or subcontracted by either the CITY or CONTRACTOR without the prior written consent of the other.

# 22. <u>INTEGRATION; AMENDMENT</u>

This Agreement represents the entire understanding of the CITY and CONTRACTOR as to those matters contained in it. No prior oral or written understanding will be of any force or effect with respect to the terms of this Agreement. The Agreement may not be modified or altered except in writing signed by both parties.

### 23. INTERPRETATION

The terms of this Agreement should be construed in accordance with the meaning of the language used and should not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction that might otherwise apply.

# 24. **SEVERABILITY**

If any part of this Agreement is found to be in conflict with applicable laws, that part will be inoperative, null and void insofar as it is in conflict with any applicable laws, but the remainder of the Agreement will remain in full force and effect.

#### 25. TIME OF ESSENCE

Time is of the essence in the performance of this Agreement.

#### 26. GOVERNING LAW; JURISDICTION

This Agreement will be administered and interpreted under the laws of the State of California. Jurisdiction of any litigation arising from the Agreement will be in Los Angeles County, California.

## 27. COMPLIANCE WITH STATUTES AND REGULATIONS

CONTRACTOR will be knowledgeable of and will comply with all applicable federal, state, county and city statutes, rules, regulations, ordinances and orders.

#### 28. WAIVER OF BREACH

No delay or omission in the exercise of any right or remedy by a nondefaulting party on any default will impair the right or remedy or be construed as a waiver. A party's consent or approval of any act by the other party requiring the party's consent or approval will not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing and will not

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be a waiver of any other default concerning the same or any other provision of this Agreement.

### 29. ATTORNEY'S FEES

Except as provided for in Paragraph 15, in any dispute, litigation, arbitration, or other proceeding by which one party either seeks to enforce its rights under this Agreement (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Agreement, the prevailing party will be awarded reasonable attorney's fees, together with any costs and expenses, to resolve the dispute and to enforce any judgment.

### 30. EXHIBITS

All exhibits identified in this Agreement are incorporated into the Agreement by this reference.

### 31. CONTRACTOR'S AUTHORITY TO EXECUTE

The persons executing this Agreement on behalf of the CONTRACTOR warrant that (i) the CONTRACTOR is duly organized and existing; (ii) they are duly authorized to execute this Agreement on behalf of the CONTRACTOR; (iii) by so executing this Agreement, the CONTRACTOR is formally bound to the provisions of this Agreement; and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which the CONTRACTOR is bound.

CITY OF TORRANCE,		
a Municipal Corporation		
	Ву:	
Frank Scotto, Mayor		
ATTEST:		
Sue Herbers, City Clerk	_	
APPROVED AS TO FORM:		
JOHN L. FELLOWS III City Attorney		
Ву:		
(name)		
Deputy City Attorney		
Attachments: Exhibit A: Bid		

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**EXHIBIT A** 

Bid

[To be attached]

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### CITY OF TORRANCE, CALIFORNIA

### CONSTRUCTION OR SERVICE CONTRACT ENDORSEMENT

To be attached to and made a part of all policies insuring the liability of any person, firm or corporation performing services under contract for the City of Torrance.

Not withstanding any inconsistent expression in the policy to which this endorsement is attached, or in any other endorsement now or hereafter attached thereto, or made a part thereof, the protection afforded by said policy shall:

- 1. Include the City of Torrance as an additional insured. (To include the elected officials, appointed officials, and employees.)
- 2. Indemnify and save harmless the City of Torrance against any and all claims resulting from the undertaking specified in the contract known as:

### PROPOSAL, SPECIFICATIONS, BOND AND AFFIDAVIT FOR THE CONSTRUCTION OF FY2011-12 SLURRY SEAL PROGRAM, I-119 B2013-21

This hold harmless assumption on the part of the underwriters shall include all costs of investigation and defense, including claims based on damage to substructures not shown, not located on the plans, or shown incorrectly.

- 3. Not be cancelled except by notice to the City Attorney of the City of Torrance at least thirty (30) days prior to the date of cancellation.
- 4. Provide single limit for Bodily Injury Liability and Property Damage Liability combined, \$3,000,000 each occurrence, and \$5,000,000 Aggregate.
- 5. Limited classifications, restricting endorsements, exclusions or other special provisions contained in the policy shall not act to limit the benefits of coverage as they shall apply to the City of Torrance as enumerated in this endorsement. However, nothing herein contained shall affect any rights of the insurer against the insured.
- 6. It is further expressly agreed by and between the parties hereto that the following two provisions, (a) and (b), are a part of this contract:
  - a. That the Contractor specifically agrees to comply with applicable provisions of Section 1777.5 of the Labor Code relating to the employment by Contractor or subcontractor under it, of journeyman or apprentices, or workmen, in any apprenticeable craft or trade.
  - b. By my signature hereunder, as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

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### **CONSTRUCTION OR SERVICE CONTRACT ENDORSEMENT**

(CONTINUED)

The limits of liability as stated in this endorsement apply to the insurance afforded by this endorsement notwithstanding that the policy may have lower limits of liability applying elsewhere in the policy.

	Duly Authorized Agent
Attached to and forming part of	
Policy No	
of the	
Date:	
Expiration Date:	

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### **WORKERS' COMPENSATION INSURANCE CERTIFICATION**

In compliance with Section 7-4 of the Standard Specifications, the Contractor shall complete and submit the following certification with a Certificate of Insurance before execution of the contract.

I am aware of, and will comply with, Section 3700 of the Labor Code, requiring every employer to be insured against liability for Workers' Compensation or to undertake self-insurance before commencing any of the work.

	CONTRACTOR
Ву:	
Title:	

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### **SECTION E**

### **SPECIAL PROVISIONS**

The following Special Provisions supplement and amend the latest editions of the Standard Specifications for Public Works Construction (SSPWC "Greenbook"), and the Standard Specification of the State of California Department of Transportation (Caltrans), as noted herein. These Special Provisions have been arranged in a format that parallels the SSPWC "Greenbook" Standard Specifications.

### SECTION E SPECIAL PROVISIONS

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### PART 1 GENERAL PROVISIONS

### SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

### **1-2 TERMS AND DEFINITIONS.** Add or redefine the following:

**Agency** – The City of Torrance, herein referred to as City.

**Board** – The City Council of the City of Torrance herein referred to as City Council.

**Engineer** – The Public Works Director and/or the City Engineer of the City of Torrance, acting either directly or through properly authorized agents (e.g. Engineering Manager, Project Engineer, or Inspector), and such agents acting within the scope of the particular duties entrusted to them.

**Caltrans Specifications** – State of California Department of Transportation Standard Specifications, latest edition, and all supplements.

**Claim** – A separate demand by the Contractor for (A) a time extension, (B) payment of money or damages arising from work done by or on behalf of the Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (C) an amount the payment of which is disputed by the Agency.

### SECTION 2 – SCOPE AND CONTROL OF THE WORK

**2-1 AWARD AND EXECUTION OF CONTRACT.** Replace the entire subsection with the following:

Within ten (10) working days after the date of the City's award of contract, the Contractor shall execute and return all Contract Documents required by the City. The City reserves the right to terminate the award if the above requirement is not met. Such termination will result in the forfeiture of the Proposal Guaranty.

The Contract shall not be considered binding upon the City until executed by the authorized City officials.

**2-4 CONTRACT BONDS.** Revise the fourth paragraph to read as follows:

The "Performance Bond" shall be for 100 percent of the Contract Price and shall remain in effect for one year following the date specified in the Notice of Completion or, if no Notice of Completion is recorded, for one year following the date of final acceptance by the Engineer.

### 2-5 PLANS AND SPECIFICATIONS.

- **2-5.1 General.** Add the following subsections:
- **2-5.1.1 Plans.** There are no Plans for the Work. Included in the Appendices are project location and detail area maps, and spreadsheets of related information. Actual limits of Work will be determined in the field by the Engineer.

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### **2-5.1.2 Specifications.** The Work shall be performed or executed in accordance with these Special Provisions and the following:

- 1) Standard Specifications for Public Works Construction, latest edition and supplements thereto, hereinafter referred to as the Standard Specifications, as written and promulgated by Public Works Standards, Inc. The Standard Specifications are published by BNi Building News, Inc., 990 Park Center Drive, Suite E, Vista, CA 92081, Phone: (760) 734-1113.
- 2) Sections 84 and 85 of the State of California Department of Transportation (Caltrans) Standard Specifications, latest edition, and all supplements.

### **2-5.2 Precedence of Contract Documents.** Replace the entire subsection with the following:

If there is a conflict between any of the Contract Documents, the document highest in precedence shall control. The order of precedence shall be as follows:

- 1) Permits issued by other agencies
- 2) Change Orders (including Plans and Specifications attached thereto)
- 3) Public Works Agreement
- 4) Addenda
- 5) Special and General Provisions
- 6) Plans and/or Maps
- 7) City Standard Plans
- 8) Other Standard Plans
- 9) Standard Specifications for Public Works Construction
- 10) Reference Specifications

With reference to the Plans, the order of precedence is as follows:

- 1) Change Order plans govern over Addenda and Contract plans
- 2) Addenda plans govern over Contract plans
- 3) Contract plans govern over standard plans
- 4) Detail plans govern over general plans
- 5) Figures govern over scaled dimensions

Within the Specifications, the order of precedence is as follows:

- 1) Change Orders
- 2) Permits from other agencies/Supplemental Agreements
- 3) Special Provisions
- 4) Instruction to Bidders
- 5) Referenced Standard Plans
- 6) Referenced Standard Specifications

If the Contractor, in the course of the Work, becomes aware of any claimed errors or omissions in the Contract Documents or in the City's fieldwork, the Contractor shall immediately inform the Engineer. The Engineer shall promptly review the matter, and if the Engineer finds an error or omission has been made the Engineer shall determine the corrective actions and advise the Contractor accordingly. If the corrective work associated with an error or omission increases or decreases the amount of work called for in the Contract, the City shall issue an appropriate Change Order in accordance with Section 3-3. After discovery of an error or

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omission by the Contractor, any related work performed by the Contractor shall be done at the Contractor's risk unless authorized by the Engineer.

### 2-5.3 Submittals.

### **2-5.3.4 Supporting Information.** Add the following:

Submittals are required for the following:

- 1) Chip Seal
- 2) Type II Slurry Seal with 2.5% latex additive
- 3) Crack Sealant

In addition to the above, submittals may be required for any product, manufactured item, or system not specifically listed above.

### **2-6 WORK TO BE DONE.** Add the following:

**2-6.1 Scope of Work.** The Work generally consists of furnishing all labor, materials, tools, equipment, and incidentals necessary to remove (by grinding) existing thermoplastic and painted striping, pavement markings and legends; remove raised pavement markers; apply bituminous pavement crack sealant; apply cape seal in areas indicated; apply slurry seal in areas indicated; install new striping, pavement markings, legends and raised pavement markers; remove and dispose existing wood wheel stops; remove, store, and re-install existing concrete wheel stops; and install new concrete wheel stops; on City streets and on City parking facilities shown on the location and detail area maps, as listed in the Appendices, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

The Work also includes sweeping before and after chip seal and slurry seal applications; removing of grease spots (by grinding); all necessary traffic control; preparing and updating construction schedules; posting signs for "NO PARKING" and arranging for towing of cars, if necessary; protecting all utility covers in place; and installing temporary pavement markers.

The Contractor shall be responsible for cleaning, sweeping and removing all loose rock from surfaces, parking areas, gutters, sidewalks, driveways and parkways after chip seal and slurry seal application, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

### 2-10 AUTHORITY OF THE BOARD AND THE ENGINEER. Add the following:

Failure of the Contractor to comply with the requirements of the Contract Documents, or to follow the directions of the Engineer, and/or to immediately remedy such noncompliance or to follow directions, may, upon notice from the Engineer, result in the suspension of the Contract monthly progress payments. Any monthly progress payments so suspended may remain in suspension until the Contractor is in compliance with the Contract Documents and the directions of the Engineer, as determined by the Engineer.

### **2-11 INSPECTION.** Replace the entire subsection with the following:

The Work is subject to inspection and approval by the Engineer. The Contractor shall notify the Engineer a minimum of 48 hours in advance of the required inspection.

The Engineer will make, or have made, such inspections and tests, as he deems necessary to see that the Work is in conformance with the Contract Documents. In the event such

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inspections or tests reveal noncompliance with the Contract Documents, the Contractor shall bear the cost of such corrective measures as deemed necessary by the Engineer, as well as the cost of subsequent re-inspection and re-testing.

Work done in the absence of inspection by the Engineer may be required to be removed and replaced under the inspection of the Engineer, and the entire cost of removal and replacement, shall be borne by the Contractor.

The Engineer and any authorized representatives shall at all times have access to the Work during its construction at shops and yards as well as the Work site. The Contractor shall provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with the Contract Documents.

Inspection of the Work shall not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

Add the following subsections:

**2-11.1 Special Inspection Fees.** If the Contractor elects to work under this Contract more than 8 hours/day or more than 40 hours/week, Saturday, Sunday, or City holidays, the Contractor shall arrange with the Engineer for the required inspection service and pay the Special Inspection Fees which will be charged at the following rates:

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Mondays through Fridays - $125.00 per hour Saturdays, Sundays, Holidays - $1,000.00 per day
```

Fees may be deducted from payments due to the Contractor at the discretion of the Engineer.

If the Contractor works under this contract at times other than within the allowed working hours without permission from or prior arrangement with the Engineer, the Contractor will be charged a lump sum amount of \$500.00 for each occurrence, in addition to the above fees. The amount will be deducted from a Progress Payment.

### 2-11.2 Material Inspection/Testing and other City Expenses.

- (a) If a City subcontractor hired to perform material inspection and/or testing is required to work additional time to perform inspection and testing as a result of an action or delay caused by the Contractor, except for specific work allowed by the Engineer, the City subcontractor may charge the City an additional fee. The Engineer may deduct the additional fee for said inspection and testing from a Progress Payment to the Contractor. The Engineer also may deduct the cost to perform additional testing when an initial test fails to meet the requirements of this Contract. The typical rates for material testing and inspection are available upon request from the Public Works Department.
- (b) If the Contractor does not comply with a requirement of these Special Provisions or if it does not immediately respond, after being informed, to a request by the Engineer to amend a site condition that jeopardizes the public health, safety or welfare, the Engineer may direct City staff to perform the work. For each occurrence, the City will charge the Contractor a base charge in the amount of \$750 in addition to all costs incurred by the City for administration, labor, equipment and materials. The standard rates for City staff are available upon request from the Public Works Department.

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- (c) For each sign, drum, delineator, cone, barricade, warning device, or other type of required traffic control device that is not provided by the Contractor when required by the Traffic Control Plans, the Engineer may deduct \$75 per day for each missing device from a Progress Payment. The Engineer, a City designate, or Public Works Inspector will inform the Contractor The deduction does not apply to a device that is fraudulently removed by non-construction personnel.
- (d) Temporary lane closures maintained prior to 8:30 A.M. and/or after 3:30 P.M. may have a negative economic effect on the local residential, commercial or industrial community. Unless a temporary lane closure is otherwise authorized, the Engineer may deduct a fee from a Progress Payment for each temporary lane closure maintained prior to 8:30 A.M. or after 3:30 P.M. The fee will be assessed at a rate of \$700 per each travel lane per each thirty (30) minute interval, or fraction thereof.

### **SECTION 3 – CHANGES IN WORK**

### 3-3 EXTRA WORK.

### **3-3.1 General.** Add the following:

Payment for additional work and all expenditures in excess of the Contract Price must be authorized in writing by the Engineer. Such authorization shall be obtained by the Contractor prior to engaging in additional work. It shall be the Contractor's sole responsibility to obtain written approval from the Engineer for any change(s) in material or in the work proposed by suppliers or subcontractors. No payment shall be made to the Contractor for additional work, which has not been approved in writing, and the Contractor hereby agrees that it shall have no right to additional compensation for any work not so authorized.

The Contractor shall be responsible to provide all data and to obtain all approvals required by the Specifications, including submittal of Daily Extra Work Reports. No claims or extras shall be approved by the Engineer unless all work was done under the direction of and subject to the approval of the Engineer. Disputed work claims shall comply with Section 3-3 as modified herein.

### **3-3.2.2 Basis for Establishing Costs.** Replace the second paragraph of part (c) with the following:

The Contractor will be paid for the use of equipment at rental rates listed for such equipment in "Rental Rate Blue Book" published by Dataquest, Inc., 1290 Ridder Park Drive, San Jose, California, 95131, telephone: (408) 971-9000, which is in effect on the date upon which the work is accomplished and which is a part of the Contract, regardless of ownership and any rental or other agreement, if such may exist, for the use of such equipment entered into by the Contractor. If it is deemed necessary by the Engineer to use equipment not listed in the said publication, a suitable rental rate will be established by the Engineer. The Contractor may furnish any cost data that might assist the Engineer in the establishment of such rental rate.

### **3-3.2.3 Markup.** Replace the entire subsection with the following:

The markups mentioned hereinafter shall include, but are not limited to, all costs for the services of superintendents, project managers, timekeepers and other personnel not working directly on the change order, and pickup or yard trucks used by the above personnel. These costs shall not be reported as labor or equipment elsewhere except when actually performing

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work directly on the change order and then shall only be reported at the labor classification of the work performed.

(a) **Work by Contractor.** The following percentages shall be added to the Contractor's costs and shall constitute the mark-up for all overhead and profit, which shall be deemed to include all items of expense not specifically designated as cost or equipment rental in Subsections 3-3.2.2(a), 3-3.2.2(b), and 3-3.2.2(c).

Labor 20 Materials 15 Equipment Rental 15 Other Expenditures 15

To the sum of the costs and markups provided for in this subsection, one (1) percent shall be added as compensation for bonding.

(b) Work by Subcontractor. When any part of the extra work is performed by a subcontractor, the markup established in 3-3.2.3(a) shall be applied to the subcontractor's actual cost of such work. A markup of ten (10) percent on the first \$5,000 of the subcontracted portion of the extra work and a mark-up of 5 percent on work added in excess of \$5,000 of the subcontracted portion of the extra work may be added by the Contractor.

The markups specified in parts (a) and (b) above shall be considered as including, but not limited to, the Contractor's labor costs for personnel not working directly on the extra work, including the cost of any tools and equipment that they may use. Such costs shall not be reported as labor or equipment costs elsewhere except when they are actually used in the performance of the extra work. Labor costs shall in that case be reported for the labor classification corresponding to the type and nature of extra work performed.

### SECTION 4 - CONTROL OF MATERIALS

### 4-1 MATERIAL AND WORKMANSHIP.

**4-1.1 General.** Add the following paragraph after the second paragraph:

If the work, or any portion thereof, shall be damaged in any way, or if any defective materials or faulty workmanship shall be discovered at any time prior to the final payment, the Contractor shall forthwith, at its own cost and expense, repair said damage, or replace such defective materials, or remedy such faulty workmanship in a manner satisfactory to the Engineer.

### **4-1.2 Protection of Work and Materials.** Add the following:

The Contractor shall assume all risks and expense of interference and delay in his operations, and the protection from or the repair of damage to improvements being built under the contract, as may be caused by water of whatever quantity from floods, storms, industrial waste, irrigation, underground or other sources. However, the Contractor shall be entitled to an extension of time in accordance with the provisions of Subsection 6-6. The Contractor shall also assume full responsibility and expense of protecting, or removing and returning to the site of Work, all equipment or materials under his care endangered by any action of the elements.

Furthermore, the Contractor shall indemnify and hold the City harmless from all claims or suits for damages arising from his operations in dewatering the Work and control of water.

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### SECTION 6 – PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK

- **6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK.** Replace the entire subsection with the following:
- **6-1.1 General.** Within ten (10) working days after the date of the City's execution of the Contract, the Contractor shall submit a proposed construction schedule to the Engineer for approval. The schedule shall be in accordance with the Specification and these Special Provisions.

In addition, during construction, the Contractor shall also submit to the Engineer, a two-week "look ahead" construction schedule every Monday morning. The schedule shall indicate, by date, the locations of Work during the next 2 weeks. The schedule shall consist of an 8-1/2" x 11" street map of the part of the city to be completed, with each week's area outlined.

Prior to issuing the Notice to Proceed, the Engineer will schedule a Pre-Construction Meeting with the Contractor to review the proposed construction schedule and delivery dates, arrange utility coordination and clarify inspection procedures.

Notwithstanding any other provisions of the Contract, the Contractor shall not be obligated to perform any work and the City will not be obligated to accept or pay for any work performed by the Contractor prior to delivery of a Notice to Proceed. The City's knowledge of work being performed prior to delivery of the Notice to Proceed shall not obligate the City to accept or pay for such work. The Contractor shall provide all required Contract bonds and evidences of insurance prior to commencing work at the site.

- **6-1.2 Requirements.** Contractor shall prepare and submit separate schedules for each week of work. Each weekly schedule shall consist of the following:
  - Two copies of a location map showing each street proposed for Chip Seal and/or Slurry for the upcoming week. The streets shall be color-coded to indicate the day of the week for application.
  - 2) One copy of a typed list of the streets (and limits) scheduled for Chip Seal and/or Slurry.

Upon approval of the schedule, Contractor shall immediately supply the Engineer with 3 additional color-coded street maps.

- **6-1.3 Criteria.** Construction schedules shall consider the following:
  - 1) REFUSE AND RECYCLING COLLECTION. Detail Area Maps in the Appendices show the refuse and recycling collection day for each area. Application of Chip Seal or Slurry Seal is prohibited on the day prior to and on the same day as refuse and recycling collection.
    - Chip Seal and Slurry Seal shall be scheduled to occur on the days immediately following trash collection. Also, Chip Seal and Slurry Seal should be scheduled to allow a minimum of 4 calendar days of cure time, prior to trash collection days.
  - 2) Application of Slurry Seal at City Yard Areas 1 and 2 and City Hall Area 3 shall be performed only on a City closed Friday or Saturday. The City's closed Friday

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occurs bi-weekly as follows: June 28, July 12, July 26, August 9, August 23, September 6 and September 20.

3) At City Yard Areas 1 and 2 and City Hall Area 3, the contractor shall perform the layout and cat-tracking of all parking spaces, striping, legends and pavement markings only on the closed Friday, Saturday or Sunday immediately following the slurry seal application. The installation of permanent painted parking spaces, striping, legends and pavement markings also shall occur on a closed Friday, Saturday or Sunday, but not less than 6 days following the slurry seal application and not greater than 9 days following the slurry seal application.

Example 1: If slurry seal is applied on closed Friday, July 26, contractor shall install layout and cat-tracking on Saturday, July 27. Permanent markings shall be installed on either Saturday, August 3 or Sunday, August 4.

Example 2: If slurry seal is applied on Saturday, July 27, contractor shall install layout and cat-tracking on Sunday, July 28. Permanent markings shall be installed on either Saturday, August 3 or Sunday, August 4.

<u>Failure to comply with the requirements of this subsection may result in a penalty of \$3,000 per occurrence.</u>

- 4) TEMPORARY STREET PARKING FOR RESIDENTS. The schedule shall allow affected residents ample on-street parking within an 1,000-foot distance from their homes, and shall consider pedestrian access routes to said parking.
- 5) STOCKPILE AREA. Schedule shall indicate date for cleanup of stockpile area
- 6) WORK HOURS. Work shall be performed between the hours of 7:00 a.m. and 4:30 p.m. unless otherwise approved by the Engineer. The Contractor shall consider in its schedule any reasonable delay required to locate owners of vehicles parked within the work areas. Locating vehicle owners must be coordinated with the Engineer, Inspector, and Torrance Police Department.
- 7) WEEKEND WORK: Weekend work is required for several project areas, as described in these Specifications.
- **6-1.4 Updates.** The Contractor is expected to strictly adhere to the approved schedules. Should it be necessary to change the sequence of the streets previously scheduled for Work, the Contractor shall immediately inform the Engineer, and within 24-hours of such notification, submit a revised schedule for approval. In no case shall the Contractor be allowed to any Chip Seal or Slurry on a street without notifying the Engineer and the residents as required in these Specifications.

Written re-notification is required, per Section 7-10.1.2, Notifications and Postings.

**6-1.5 Compensation.** Compensation for all scheduling activities will be made on the lump sum basis per the Contract Unit Price for "MOBILIZATON AND DEMOBILIZATION," in the Bidder's Proposal, if all schedules comply with the requirements of the Specifications, and are submitted in a timely manner and in proper form.

### 6-7 TIME OF COMPLETION.

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### **6-7.1 General.** Replace the first sentence with the following:

Time shall be of the essence in the Contract. The Contractor shall begin Work within five (5) working days of the start date specified in the Notice to Proceed and shall diligently prosecute the work to completion.

### **6-7.3 Contract Time Accounting.** Insert the following before the first sentence:

Unless otherwise specified, contract time accounting shall be expressed in working days.

### **6-8 COMPLETION, ACCEPTANCE AND WARRANTY.** Add the following:

It is the intent of the Specifications that only first-class materials and workmanship will be acceptable. The Contractor shall take all necessary measures to protect Work from damage and prevent accidents and vandalism during any and all phases of the work.

Until the final acceptance of the Work by the City, by written action of the Engineer, the Contractor shall have the charge and care thereof and will bear the risk of injury or damage to any part of the Work by the action of the elements, vandalism, or any other cause. The Contractor shall rebuild, repair, restore and make good all injuries or damages to any portion of the Work occasioned by any cause before its completion and acceptance and will bear the expense thereof.

A partial list of causes for rejection of Work includes:

- Power steering marks
- Drive-through marks
- Raveling
- Color variations
- Loose gravel on roadways, sidewalks, gutters and parkways
- Deliberate defacing by vandals
- Chip Seal or Slurry applied over traffic markings and/or manhole and utility valve covers
- Inadequate temporary traffic markers

### 6-9 LIQUIDATED DAMAGES.

In each of the two paragraphs, substitute "\$500" in place of "\$250" as the amount of the liquidated damages per each consecutive calendar day.

### SECTION 7 – RESPONSIBILITIES OF THE CONTRACTOR

**7-3 LIABILITY INSURANCE.** Replace the second sentence of the second paragraph with the following:

The Contractor shall maintain at its sole expense insurance, conforming to the requirements of Article 17, "INSURANCE" of the Public Works Agreement.

Add the following:

The Contractor must include all subcontractors as insured under its policies or must furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors will be subject to all of the requirements of the Public Works Agreement.

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**7-4 WORKERS' COMPENSATION INSURANCE.** Add the following after the first sentence of the second paragraph:

Worker's Compensation Insurance shall be per Section 17 of the Public Works Agreement.

- **7-5 PERMITS.** Replace this section with the requirements of paragraph J in the Instructions to Bidders.
- **7-6 THE CONTRACTOR'S REPRESENTATIVE.** Add a third paragraph to the section stating the following:

Before starting work, the City shall have the authority to not approve the Contractor's proposed representative and/or alternate representative. The City shall inform the Contractor in writing and request a replacement representative and/or alternate representative. The City shall have the authority to require the Contractor to remove its representative and/or alternate representative at any time without cause and at no cost to the City.

### 7-8 WORK SITE MAINTENANCE.

- **7-8.1 General.** Add the following subsections:
- **7-8.1 Temporary Light, Power, and Water.** If required, the Contractor shall obtain a construction water meter, at least one (1) week prior to the start of work, from the City by calling Global Water at (855) 354-5623. A \$1,000 deposit is required and refundable upon return of the meter in good working condition. The Contractor shall pay for the water used, at the CITY's current water rates.

Some water mains in Torrance are owned/operated by California Water Service. For rental of a hydrant meter the Contractor shall call California Water Service at (310) 257-1400.

**7-8.1.2 Graffiti Removal.** The Contractor shall maintain the Work, all of its equipment, and all traffic control devices, including signage, free of graffiti throughout the duration of the Contract. The Contractor shall respond to any request from the Engineer to remove graffiti within 4 hours of notification. Should the Contractor fail to respond to such request, the City reserves the right to make other arrangements for the requested graffiti removal and deduct the cost from any monies due the Contractor.

### **7-8.6 Water Pollution Control.** Add the following subsections:

**7-8.6.2 Best Management Practices (BMPs).** Best Management Practices shall be defined as any program, technology, process, siting criteria, operating method, measure, or device, which controls, prevents, removes, or reduces pollution. The Contractor shall obtain and refer to the <u>California Storm Water Best Management Practice Handbooks, Volume 3 Construction BMP Handbook and the Los Angeles County Department of Public Works Best Management <u>Practices Handbook for Construction Activities</u>. These publications are available from:</u>

Los Angeles County Department of Public Works Cashier's Office 900 S. Fremont Avenue Alhambra, CA 91803 Telephone (626) 458-6959

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BMPs for Contractor activities shall be continuously implemented throughout the year. BMPs for erosion control and sedimentation shall be implemented during the period from October 15 to April 15, and whenever the National Weather Service predicts rain within 24 hours. BMPs for erosion control and sedimentation shall also be implemented prior to the commencement of any Contractor activity or construction operation that may produce run-off, and whenever run-off from other sources may occur.

The City, as a permittee, is subject to enforcement actions by the State Water Resources Control Board, Environmental Protection Agency, and private citizens. The City may assess the Contractor a penalty of \$1,000 for each calendar day that the Contractor has not fully implemented the BMPs specified for the Contract and/or is otherwise in noncompliance with these provisions. In addition, the City will deduct, from the final payment due the Contractor, the total amount of any fines levied on the City, plus legal and staff costs, as a result of the Contractor's lack of compliance with these provisions and/or less than complete implementation of the specified BMPs.

Full compensation for the implementation of BMPs, including the construction, removal, and the furnishing of all necessary labor, equipment, and materials, shall be considered as included in the prices bid for the various items of work.

### **7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS.** Add the following subsections:

### 7-9.1 Protection of Permanent Pavement Markers, Manholes, Valves, Thermoplastic Markings.

The Contractor shall cover and protect existing raised pavement markers (blue, white and yellow), manhole covers, utility valve covers, survey markers and similar items from damage and discoloration from the slurry seal operation. The City uses special water valve lids which must be protected at all times.

Existing thermoplastic "STOP" legends and 12"-wide stop bars and other thermoplastic pavement markings that are not within the work area, but in close proximity shall either be masked to prevent damage during the slurry seal application or, if damaged, replaced in-kind after the slurry seal application. Refer to Section 310-5.6.1 of these Specifications.

All protective masking material shall be promptly removed by the Contractor.

Full compensation for protection and restoration of existing improvements shall be included in the bid items to which this work is appurtenant and no additional compensation will be allowed therefore.

### 7-10 PUBLIC CONVENIENCE AND SAFETY.

### 7-10.1 Traffic and Access.

### **7-10.1.1 General.** Delete this subsection and replace with the following:

The Contractor is allowed to fully close local residential street segments and restrict driveway access to private properties for up to 9 hours (7:00 a.m. to 4:00 p.m.), subject to compliance with the operational requirements of these specifications. The Contractor's

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operations shall cause no unnecessary inconvenience and shall accommodate emergency access to residents and businesses on a case by case basis.

The Contractor shall provide and maintain all signs, barricades, flashers, delineators and similar devices needed for traffic control in accordance with the California Manual on Uniform Traffic Control Devices, latest edition. Flagmen shall also be provided by the Contractor on an as-needed basis.

The Contractor shall protect the work from traffic. Should the slurry seal be damaged, the Contractor shall provide satisfactory repairs at no cost to the City.

At the end of each day's work and at other times when construction operations are suspended, all equipment and other obstructions shall be removed from the roadway.

Add the following subsections:

### 7-10.1.2 Notifications and Postings.

### SIGNS SHALL NOT BE POSTED ON TREES, TRAFFIC SIGNAL POLES, UTILITY POLES. STREET LIGHTS. OR ANY OTHER STREET FURNITURE.

Notifications and postings shall consist of "door-hanger" Notices, printed Notices mounted on barricades or wood stakes, and "No Parking – Tow Away" signs. The Contractor shall supply, distribute, and/or post all such notices. All Notices must be submitted for approval to the Engineer and at least one (2) weeks prior to the required distribution date. The Contractor shall be responsible for revising said Notices, if required by the Engineer.

A "door-hanger" Notice for each street segment shall be distributed: a) one (1) week prior to the scheduled work, and b) 48 hours in advance of the Work on that street segment. Said Notice shall be written as being issued by the City of Torrance and shall contain a general description of the work to be done; the name of the street (with limits) to be closed for Work; the day and date of scheduled Work; a statement that no on-street parking will be allowed between the hours of 7:00 a.m. and 5:00 p.m. on the day of scheduled Work (with a statement that the street will be re-opened earlier if possible); a statement (in bold type) that it will be necessary to tow away parked vehicles at the owner's expense per California Vehicle Code CVC 22651L and CVC 22654D; a statement that in the event the street is missed, it will be rescheduled in approximately 1-2 weeks and that the residents will be re-notified; a statement that there will be no disruption of trash collection schedules; and the name and telephone number of the Contractor. Additionally, the Notice shall contain a statement that the street to be sealed will be closed to all vehicular traffic, including access to and from parking areas and garages, and the suggestion that if residents require the use of their vehicles on the day of scheduled Work, they should consider parking their vehicle on nearby streets not scheduled for slurry seal or closure.

A copy of the above Notices shall be posted at each and all access points to the affected street segment and in the same manner as the "No Parking – Tow Away" signs.

The "No Parking-Tow Away" signs shall be posted on each street segment at least 48 hours in advance of scheduled Work. The signs shall be mounted on 1" x 2" wood stakes, barricades, or other approved support. Signs shall be spaced at approximately 100' intervals on both sides of the street. The text shall include the day, date, and hours that parking will be prohibited on that particular street and a statement that parked vehicles must be towed away at owner's expense per California Vehicle code CVC 22651L and CVC 22654D.

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The Contractor shall document the day, date, and time that the signs are installed. The "No Parking" restriction cannot be enforced until the signs have been in place at least 24 hours. The Contractor shall maintain said signs through the day of work, and shall remove all of said signs on the same day after completion of the work, or as otherwise directed by the Engineer.

If, in the event a street scheduled for Work is missed, the Contractor shall immediately remove all "No Parking" signs and Notices and deliver a new Notice from the City to all previously notified persons. Said Notice, to be prepared by the Contractor, and must be approved in advance by the Engineer. The Contractor shall have on the job site, prior to the start of each day's work, an adequate supply of approved Notices for missed streets.

Full compensation for conforming to the above requirements shall be considered as included in the various bid items to which the notifications and postings are appurtenant, and no additional compensation will be allowed therefore.

**7-10.1.3 Temporary Pavement Markings.** Temporary pavement delineation shall be furnished, placed and maintained by the Contractor, in accordance with the provisions of Section 12-3.01, of the Caltrans Specifications. Contractor will be responsible for the removal of the temporary marks and perform the permanent pavement striping. Nothing in these Special Provisions shall be construed as to reduce the minimum standards specified in the Manual on Uniform Traffic Control Devices or as relieving the Contractor from responsibility as provided in 7-10 of these Special Provisions.

Whenever the work causes obliteration of pavement delineation, temporary or planned pavement delineation shall be in place prior to opening the traveled way to public traffic. Lane line or centerline pavement delineation shall be provided at all times for traveled ways open to public traffic.

All work necessary to establish satisfactory lines for temporary pavement delineation shall be performed by the Contractor. Surfaces on which temporary pavement delineation is to be applied shall be cleaned of all dirt and loose material and shall be dry when the pavement delineation is applied. Temporary pavement delineation shall not be applied over existing pavement delineation or other temporary pavement delineation.

Temporary pavement delineation shall consist of temporary reflective raised pavement markers placed on lane lines and centerlines at longitudinal intervals of not more than 24 feet apart. Stop bars and cross walks shall also be clearly delineated by raised pavement markers at 5 feet on-center, minimum. Temporary reflective raised markers shall be the same color as the lane line or centerline the markers replace. Temporary reflective raised pavement markers shall be, at the option of the Contractor, one of the following or approved equal:

3M Scotch-Lane A200 Pavement Marking System (reflective raised pavement marker on reflective traffic line tape), manufactured by 3M Company, Highway Safety Products, 1010 Hurley Way, Suite 300, Sacramento, CA 95825, Telephone (916) 924-9605.

MV Plastics Chip Seal Marker (1280/1281 Series) manufactured by MV Plastics, Inc., 533 W. Collins Avenue, Orange, CA 92667, Telephone (714) 532-1522.

Application shall be in accordance with the manufacturer's instructions, except that epoxy adhesive shall not be used.

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There shall be no additional payment for temporary pavement markings and all costs for furnishing, placing, maintaining, and removing the temporary pavement delineation shall be considered as included in the bid prices for the work to which the markings are appurtenant.

### **7-10.1.4 Storage of Equipment and Materials in Public Streets.** Replace the first paragraph with the following:

Construction materials and equipment shall not be stored in streets, roads or highways, unless specifically authorized by Engineer.

### 7-10.1.5 Street Closures, Detours, Barricades. Add the following.

The Contractor shall provide and maintain all other signs, barricades, pedestals, flashers, delineators, and other necessary facilities for the protection of the public and control of vehicular and pedestrian traffic within the limits of the construction area. All traffic control devices shall be clean and free of graffiti, and the Contractor shall be responsible to immediately clean and replace any device to the satisfaction of the Engineer. All barricades used as warning and guiding devices shall bear the name of the Contractor in legible letters.

The Contractor shall notify the following offices at least two (2) working days in advance prior to any street closure, or partial closure, or restriction to access:

1.	Engineer	(310) 781-6900
2.	Torrance Police Department	(310) 618-5557
3.	Torrance Fire Department	(310) 781-7040
4.	Torrance Sanitation Division (Tony Mulliken)	(310) 781-6904
5.	Torrance Transit Department (Bus Operations)	(310) 618-6927
6.	Torrance Unified School District – District Office	(310) 972-6500
7.	United States Post Office	(310) 222-5902

### **SECTION 9 – MEASUREMENT AND PAYMENT**

### 9-3 PAYMENT.

### **9-3.2 Partial and Final Payment.** Add the following before the first paragraph:

The Contractor shall submit all requests for payment in the form of an invoice and provide it to the Engineer. Prior to submittal of said invoice, all items for which payment is requested shall be checked and approved in writing by the Engineer. No payments will be made unless all back-up data is submitted with the payment request, and the Progress Payment Invoice is signed by both Contractor and Engineer.

Delete the third paragraph in its entirety and replace with:

From each progress estimate, 5 percent will be deducted and retained by the City, and the remainder, less the amount of all previous payments, will be paid. In addition, 125% of the amount of outstanding "Stop Notices" shall be withheld.

Add the following:

### **9-3.4 Mobilization.** Replace the entire subsection with the following:

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Mobilization shall include the provisions of the Construction Schedule, Best Management Practices, site review; insurance, and bonds; moving onto the site all equipment; and other construction facilities, and removal of same at completion of the Work; and all other work, as required for the proper performance and completion of the Work.

Mobilization shall include, but not be limited to, the following items:

- a) Submittal and modification, as required, of the Construction Schedule.
- b) Moving onto the site of all Contractor's equipment required for the work.
- c) Providing on-site sanitary facilities and portable water facilities, as required.
- d) Submittal of all required insurance certificates and bonds, including subcontractors.
- e) Obtaining all required permits.
- f) Posting all OSHA required notices and establishment of safety programs.
- g) Having the Contractor's Superintendent present at the job site full time.
- h) Removal (including all spray-painted markings on any surface), cleanup, and restoration.
- i) Demobilization.

Payment for Mobilization will be all be made on the lump sum basis per the Contract Unit Price for "MOBILIZATION AND DEMOBILIZATION," in the Bidder's Proposal, and progress payments shall be pro-rated as a percentage of the overall progress of work. Payment for Mobilization shall include all items listed in Section 9-3.4 of these Specifications.

### PART 2 CONSTRUCTION MATERIALS

### **SECTION 203 – BITUMINOUS MATERIALS**

### 203-5 SLURRY SEAL.

**203-5.1 General.** Replace the first sentence with the following:

Slurry seal shall be quick-set Type II emulsion-aggregate slurry (EAS), with the addition of 2.5% latex, and is herein referred to as "Slurry."

### SECTION 214 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT MARKERS

**214-4 PAINT FOR STRIPING AND MARKINGS.** Replace this section with the following:

### 214-4.1 General.

Paint material for all pavement striping, markings and legends shall conform to the provisions in Section 84, "Traffic Stripes and Pavement Markings," of the State of California Department of Transportation (Caltrans) Standard Specifications, latest edition, and these Special Provisions.

Stencils used to paint pavement markings must conform to the latest Caltrans approved Stenciling Standards.

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Add to Subsection 84-1.04, "Protection from Damage," of the Caltrans Standard Specifications, the following:

Newly placed traffic stripes and pavement markings, which are damaged as a result of the construction work, and public vehicular and pedestrian traffic, shall be repainted to the satisfaction of the Engineer. All associated removals and installations, necessary to complete the work, shall be performed as outlined in these Special Provisions at the sole expense of the Contractor, and no separate compensation will be allowed therefore.

### **214-6 PAVEMENT MARKERS.** Replace this section with the following:

All work and materials shall conform to the Provisions set forth in Section 85 of the State of California Department of Transportation Standard Specifications entitled "Pavement Markers," except as noted otherwise in the following Special Provisions.

Non-reflective pavement markers shall conform to Section 85-1.04, of the Standard Specifications. Reflective pavement markers shall be of the prismatic reflector type (Stimsonite Model 911/88 or equal) as outlined in Section 85-1.05, of the Standard Specifications.

### 214-7 ADHESIVES FOR PAVEMENT MARKERS.

### **214-4.1 General.** Replace this subsection with the following:

Pavement markers shall be installed with hot-melt bituminous adhesive, and shall comply with the requirements outlined in Section 214.7, "Adhesives for Pavement Markers" of the Standard Specifications for Public Works Construction.

### PART 3 CONSTRUCTION METHODS

### SECTION 302 – ROADWAY SURFACING

### 302-2 CHIP SEAL.

Chip Seal shall conform to this Section, and the supplemental "Cape Seal Specifications" in the Appendices.

### 302-4 SLURRY SEAL SURFACING.

### **302-4.1 General.** Add the following:

The Contractor shall immediately inform the City of any necessary asphalt patching or repairs, and all other roadway surface preparation work not included in these specifications, but is required in order to achieve the required quality of slurry seal work, at any project location.

Prior to Slurry application, the Contractor shall perform the following preparation Work in all project areas, unless otherwise specified:

 Remove all existing pavement striping, markings, and legends, and raised pavement markers per Section 314, "TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT PARKERS," in these Special Provisions.

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- 2) Apply crack sealant in accordance to Section 302-14 "BITUMINOUS PAVEMENT CRACK SEALING," of these Special Provisions.
- 3) Protect all manhole covers, drain inlet covers, monument covers and all other utility covers from Slurry Seal operations by applying a sheet of plastic, cut to fit or placing a plastic bag over the exposed facilities or other methods approved by the Engineer. All traces of plastic, residual emulsion and Slurry shall be removed from all manhole covers, drain inlet covers, monument covers and all other utility covers as quickly as possible, after the application of Slurry and/or prior to final acceptance of the project.
- 4) Clean all surfaces that are to be Slurried, including removing all debris vegetation and other organic matter, removing any standing water, and sweeping the project area to remove all loose rocks and material.

### **302-4.11 Measurement and Payment.** Delete this subsection and replace with the following:

Slurry will be measured by the square foot (SF) for the actual pavement area slurry sealed. Quantities shown in the Bidder's Proposal are based on estimated measurements of the project areas and are approximations only.

Payment for furnishing, preparing and placing Slurry will be made at the Contract Unit Price per square foot bid for "TYPE II SLURRY SEAL WITH 2-1/2% LATEX" in Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work involved in the application of Slurry, including but not limited to, all surface preparations; sweeping of all work areas before and after Slurry applications; weed and debris removal; protection of manholes, valve boxes, drop inlets and other service entrances; and site clean-up.

Compensation for preparation Work described in this Section will be considered as included in the Contract Unit Price for the items of work involved and no additional compensation will be allowed therefore.

No payment shall be made for any area requiring re-application of Slurry due to damage of Slurry, prior to acceptance of Work.

Add the following subsections:

### 302-14 BITUMINOUS PAVEMENT CRACK SEALING.

**302-14.1 General.** Bituminous pavement crack sealing shall consists of furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work involved in the application of bituminous pavement crack sealant.

All pavement cracks equal to 1/4" in width or greater shall be sealed.

- **302-13.2 Cleaning.** Prior to crack sealing, the Contractor shall be responsible for properly cleaning all pavement cracks to be sealed, to the satisfaction of the Engineer. Cleaning of pavement cracks shall include, but is not limited to, the application of approved week killer, as specified by the manufacture or Engineer, removal of debris or loose material from cracks, and cleaning of cracks with a hot air lance.
- **302-13.3 Materials.** The crack sealant shall be a mixture of asphalt cement, aromatic rubber extender, oil and a minimum of 20% powdered rubber by weight, combined in such a manner as to produce a material with the following properties:

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- 1) WORKABILITY. The material shall pour readily and penetrate large cracks at temperatures below 400 degrees Fahrenheit.
- 2) CURING. The product shall contain no water or volatile solvents and shall cure immediately upon cooling to a sufficient viscosity to prevent tracking by traffic.
- 3) LABORATORY EVALUATION. When the sample of the product has been heated at 350 degrees Fahrenheit for two hours, it shall pass the following tests:
  - Softening Point (R & B): 135 degrees Fahrenheit Min. (ASTM D312)
  - Flexibility: A 1/8" thick specimen of the product conditioned to 10 degrees Fahrenheit shall be capable of being bent to a 90-degree angle over 1" mandrel without cracking.
  - The sealer shall be forced into the crack by use of a squeegee.

**302-13.4 Payment.** Payment for bituminous pavement crack sealing will be made on the lump sum basis per the Contract Unit Price for "CRACK SEALING" in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

### SECTION 314 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT PARKERS

### 314-2 REMOVAL OF TRAFFIC STRIPING AND CURB AND PAVEMENT MARKINGS.

### **314-2.1 General.** Replace the first paragraph with the following:

Prior to the Cape or Slurry Seal application, the Contractor shall remove all existing raised pavement markers, and within the work limits, by grinding. Other methods may be requested by the Contractor, which shall be submitted in writing to the Engineer for approval.

Contractor shall be responsible for noting and/or recording all existing pavement striping, markings, and legends on project streets and City parking facilities, prior to any removal, for the purpose of matching the existing configuration, installation and dimension of said markings during installation.

All existing raised pavement markers, pavement striping, markings and legends not within the work limits, but in close proximity, shall either be protected from the Work or restored in-kind to the satisfaction of the Engineer.

The Contractor is strongly advised to confirm in advance with the Engineer any and all markings designated for removal. Should the Contractor or its Subcontractor inadvertently or intentionally remove markings in areas not designated for slurry seal, the Contractor will be fully responsible for restoring the pavement surface and all markings. Pavement restoration shall be accomplished, at a minimum, by use of slurry seal. All costs for the restoration of pavement surfaces and markings shall be the sole responsibility of the Contractor.

### **314-2.3 Payment.** Replace the entire subsection with the following:

Payment for the removal of pavement striping, markings and legends, and raised pavement markers will be made on the lump sum basis per the Contract Unit Price for "REMOVE

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EXISTING PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS" in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

### 314-4 APPLICATION OF TRAFFIC STRIPING AND CURB AND PAVEMENT MARKINGS.

### 314-4.3 Painted Traffic Striping and Curb and Pavement Markings.

### **314-4.3.1 General.** Delete this subsection and replace with the following:

The Contractor shall install all traffic striping, and curb and pavement markings on all streets and City parking facilities listed in the Appendix, no earlier than one (1) week after Slurry Work is complete. All pavement striping, markings, and legends shall be installed with (2) two coats of paint.

All pavement striping, markings, and legends shall match the existing configuration and dimension of the project area, unless otherwise directed by the Engineer. Contractor shall be responsible for noting and/or recording all existing pavement striping, markings, and legends prior to removal. Any pavement striping, markings, and legends that do not match the existing configuration and dimension of the project area, shall be corrected by the Contractor, to the satisfaction of the Engineer, no more than two (2) working days after receiving notification. All associated removals and installations, necessary to complete the work, shall be performed as outlined in these Special Provisions at the sole expense of the Contractor, and no separate compensation will be allowed therefore.

Existing thermoplastic and/or painted pavement striping, markings, and legends outside of the Work area shall be protected in place by the Contractor, unless otherwise directed by the Engineer. In addition, Contractor may be required to install new pavement striping, markings, and/or legends that previously do not exist on the streets and City parking facilities listed in the Appendix.

Contractor shall not proceed with the painting of any pavement striping, markings, and/or legends until after the Engineer has inspected and approved the required "cat-tracking", and has authorized the Contractor to proceed with said painting.

For City parking facilities, the Contractor shall layout ("cat-track") parking area striping, markings and legends within one (1) calendar day after slurry seal application. After completion of layout, the Contractor shall notify the Engineer, and allow for a minimum of two (2) business days after notification, for the Engineer to inspect the layout.

Contractor shall not proceed with the painting of striping, markings or legends until after the Engineer has inspected and approved the required layout, and has authorized the Contractor to proceed with said Work.

"Cat-track" marks shall be made in chalk and/or marking paint only. "Striping" paint for the purpose of cat-tracking is prohibited.

Contractor shall refresh all painted curbs within the work limits, unless otherwise directed by the Engineer.

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All existing pavement striping and markings that do not conform to the approved Plans shall be removed by grinding. Blackout of existing pavement striping and markings, which do not conform to the approved Plans, will not be allowed.

### **314-4.3.7 Payment.** Delete this subsection and replace with the following:

Payment for the installation of pavement striping, markings and legends, and raised pavement markers will be made on the lump sum basis per the Contract Unit Price for "INSTALL PAVEMENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS" in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

### 314-5 PAVEMENT MARKERS.

### **314-5.1 General.** Add the following:

Reflective pavement markers shall be placed on a location as established by the applicable Caltrans striping detail noted on the approved striping Plan, which includes, but is not limited to temporary painted line, new striping or existing striping. There shall be one marker for each location. All work necessary to establish satisfactory locations for markers shall be performed by the Contractor.

### **SECTION 315 – CONCRETE WHEEL STOPS**

Add the entire Section 315.

### 315-1 WHEEL STOPS.

### 315-1.1 General.

Refer the City Parking Facilities inventory table in the Appendices for approximate concrete wheel stop quantities for each project area. All concrete wheel stops at City Parking Facilities indicated, shall be protected in places, unless otherwise directed by the Engineer.

The Contractor shall completely remove and properly dispose all existing wood wheel stops, including 1" galvanized pipes used to secure wood wheel stops in place.

Contractor shall completely remove all concrete wheel stops, including rebar pin, and stack concrete wheel stops neatly in a location adjacent to the Work site, to be identified by the Engineer. Said wheel stops shall be re-installed by Contractor after installation of parking stall striping and markings. Prior to removing concrete wheel stops, Contractor shall notify the Engineer of existing concrete wheel stops that are damaged, which shall be replaced with a new concrete wheel stop.

New concrete wheel stops shall be 4' long. Material for new concrete wheel stops shall be in accordance with Sections 201 and 303 of the latest edition of the Standard Specifications for Public Works Construction unless specified otherwise. Portland cement concrete shall be Class A six sack mix developing not less than 3,250 psi compressive strength at 28 days. All cement shall be Type II.

### 315-1.2 Payment.

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Payment for removal and disposal of existing wood wheel stops will be made on the lump sum basis per the Contract Unit Price for "REMOVE AND DISPOSED EXIST WOOD WHEEL STOPS," in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

Payment for removing all existing concrete wheel stops and storing on-site as required, will be made on the lump sum basis per the Contract Unit Price for "REMOVE, STORE, AND REINSTALL EXIST CONCRETE WHEEL STOPS," in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to remove concrete wheel stops complete, including rebar pins, stack and store neatly, protect wheel stops from damage and/or vandalism while in "storage," and re-installing wheel stops, as specified in the Specifications and these Special Provisions, and as directed by the Engineer. Payment shall also include disposing damaged wheel stops and repairing AC pavement damaged by the removal of concrete wheel stop and/or the 1" rebar pin, by using C3-PG-64-10 mix.

Payment for furnishing and installing new concrete wheel stops will be made at the Contract Unit Price per each bid for "FURNISH AND INSTALL NEW CONCRETE WHEEL STOPS," in the Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, as specified in the Specifications and these Special Provisions, and as directed by the Engineer.

### SECTION 316 -TRAFFIC CONTROL

Add the entire Section 316.

### 316-1 TRAFFIC CONTROL.

### 316-1.1 General.

**316-1.2 Payment.** Payment for Traffic Control will be all be made on the lump sum basis per the Contract Unit Price for "TRAFFIC CONTROL," in the Bidder's Proposal, and progress payments shall be pro-rated as a percentage of the overall progress of work. Payment shall include all signage, barricades, delineators, flashing arrow boards, traffic control devices, preparation and distribution of public notices, re-notification of affected homeowners and businesses as necessary, assistance in the towing of parked vehicles, and all other appurtenant work, and no extra payment shall be allowed.

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### **APPENDIX I**

### CITY OF TORRANCE BUSINESS LICENSE APPLICATION AND PERMIT APPLICATION FORMS

# Please call the Business License Office at 310-618-5923 for fee amounts. Payment must be submitted with your application.

### **FOR OFFICIAL USE ONLY**

2. CATEGORY NO.

1. LICENSE NO.

HEALTH PERMIT N.

HOME OCCUPATION

N.A.I.C.S. CODE

City of Torrance, Revenue Division

# Business License Application

3031 Torrance Boulevard, Torrance, California 90503 • 310/618-5828

1 STATE SOURCESS  2 MANUAL ACCORDESS  3 MANUAL
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I am duly authorized to make this application. All of the information provided in this application is true and correct. The business will not provide any service, good or product which is illegal under Federal
be revoked as outlined in section 31.9.10 of the Torrance Municipal Code.
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I declare that I am the owner, partner, corporate officer or person with the power of attorney, and i understand if all the information provided above is not the true the business license being applied for may
TITLE HOME ADDRESS
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OWNER/APPLICANT INFORMATION CONTRACTOR INFORMATION ON FILE Name: Address: City/State: Evacuation permits will not be issued without State License #: USA I.D. number. Class: Exp. Date: City Business#: Underground Service Alert Call 1-800/227-2600 Workers Comp. #: USA I.D.#: \_\_\_\_ Exp. Date: JOB LOCATION/ADDRESS (or closest street address) Please list cross streets: **DESCRIPTION OF WORK** Width of Trench Lin/Ft Trench \_\_\_\_\_ Lin/Ft Curb & Gutter Lin/Ft Bore Sewer Connection Number of Curb Drains \_\_\_\_\_ Sq/Ft Asphalt \_\_\_\_\_ Sq/Ft Concrete Sq/Ft Dirt\_\_\_\_\_ Work Order Number (for utility companies): Applicant or Authorized Signature:

### **Contractor Qualification List**

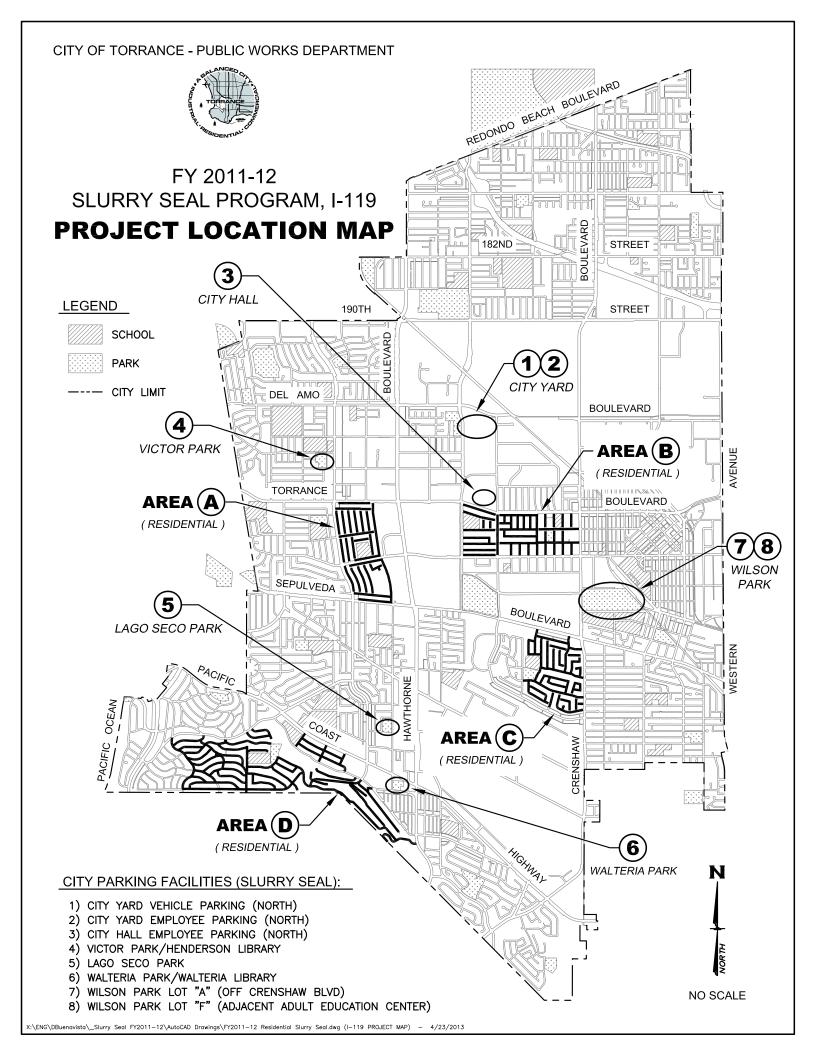
Curb/Gutter A(General Engineering)	Sewer Mainline A(General Engineering)
C8(Concrete Contractor)	C34(Pipeline Contractor)
Driveways A(General Engineering)	C42(Sanitation Contractor)
C8(Concrete Contractor)	Storm Drains A(General Engineering)
Cidenally A/Canadal Engine again a)	C34(Pipeline Contractor)
Sidewalks	C42(Sanitation Contractor)
C8(Concrete Contractor)	U/G Utilities A (General Engineering)
Street/Alley A(General Engineering)	(Water, Gas or Oil) C34 (Pipeline Contractor)
C8(Concrete Contractor)	U/G Electrical A (General Engineering)
C12(Earth and Paving Contractor)	C8 (Concrete Contractor)
Sewer Lateral	C12 (Earth and Paving Contractors)

### **Contractor Qualification List**

- 1) FOR INSPECTIONS 24 hour notice is required, before, during, and after construction. Call 310-618-5898, 7:30 AM 5:30 PM, to SCHEDULE AN INSEPCTION.
- 2) Provide TRAFFIC CONTROL per the "CITY OF TORRANCE CONSTRUCTION TRAFFIC CONTROL PROCEDURES." Street closures shall be per City of Torrance Standard T603. Major street lane closures between 8:30 AM 3:30 PM only. ONE STANDARD ARROWBOARD REQUIRED FOR EACH LANE CLOSURE.
- 3) Permitt is not valid until two working days after notifying DIG-ALERT of project. USA #
- 4) Do not remove any trees or shrubs without approval of Torrance Tree Supervisor (310-781-6900).
- 5) Contractor will be billed for overtime inspection services. OVERTIME REQUESTS must be submitted for approval 24 hrs in advance.
- 6) Construction site CLEANUP and GRAFFITI removal must be completed prior to finaling of this permit. The work site shall be kept in a well maintained condition. Signage shall be free of graffiti, replaced if bent, vandalized or displays loss of reflectivity. Any graffiti on construction signs must be removed or replaced within 24 hours of notification.
- 7) Any street striping, crosswalk, raised reflective pavement marker or pavement markings damaged by this construction shall be replaced to the satisfaction of the Torrance Public Works Department (310-781-6900).
- 8) THIS PERMIT WILL BE REVOKED if any pollutant is released into or allowed to remain in any component of the city drainage system.
- 9) Trench backfill and pavement repairs shall be per City of Torrance Standard T116.
- 10) Any irrigation system components damaged by this construction shall be replaced to the satisfaction of Park Services (310-618-2930).
- 11) All survey monuments in the project area MUST be located and tied out and a Corner Record filed prior to the start of construction. Also, all destroyed monuments must be replaced prior to receiving final inspection.
- 12) It is the responsibility of the contractor to REPLACE any PAVEMENT removed by this construction.
- 13) The City of Torrance is held harmless from the results of any action or accidents caused by the permittee, his employees, or equipment in the performance of the work described or covered in this permit. Validation of this permit SHALL NOT be held to permit or to be an approval of the violation of any applicable provision of the City Code covering this work, or any other provisions of the City of Torrance Code. In the granting of a Construction & Excavation permit, the Community Development Director may impose such conditions thereon, in addition to those otherwise provided herein, as are reasonably necessary to prevent the proposed operations from being conducted in such a manner as to constitute or create a HAZARD TO LIFE or property or be detrimental to property.

### **APPENDIX II**

### PROJECT LOCATION AND RESIDENTIAL STREETS DETAIL AREA MAPS



HTAON

Z



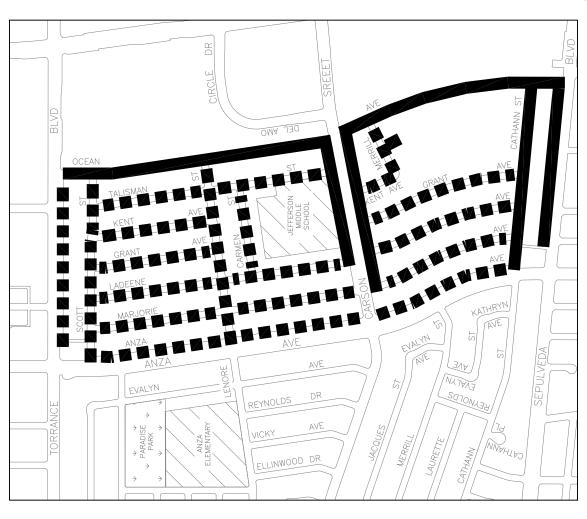
## CITY OF TORRANCE - PUBLIC WORKS DEPARTMENT

## FY 2011-12 SLURRY SEAL PROGRAM, I-119 RESIDENTIAL STREETS DETAIL AREA MAP

### NOTE

### LEGEND:

- CAPE SEAL (CHIP SEAL + TYPE II SLURRY SEAL)
- TYPE II SLURRY SEAL
- SCHOOL
- PARK

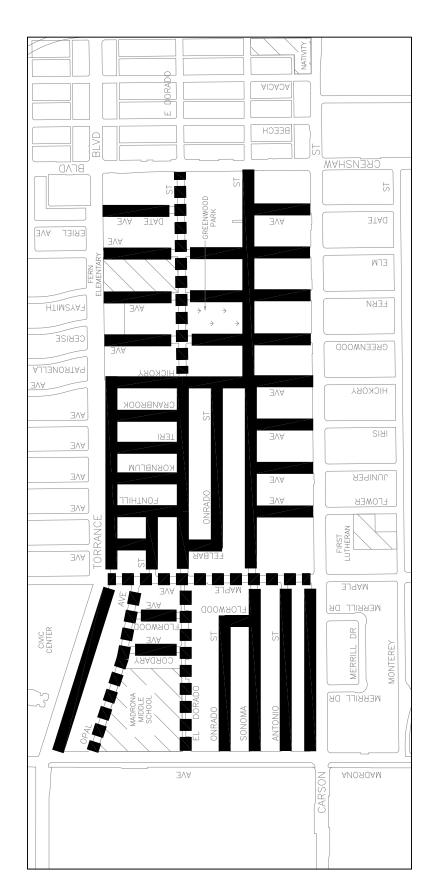




CITY REFUSE AND RECYCLING COLLECTION IN THIS AREA ARE ON TUESDAYS. APPLICATION OF SLURRY SEAL IN THIS AREA IS PROHIBITED ON MONDAYS & TUESDAYS.



# FY 2011-12 SLURRY SEAL PROGRAM, I-119 RESIDENTIAL STREETS DETAIL AREA MAP



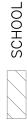
## NOTE

CITY REFUSE AND RECYCLING COLLECTION IN THIS AREA ARE ON THURSDAYS. APPLICATION OF SLURRY SEAL IN THIS AREA IS PROHIBITED ON WEDNESDAYS & THURSDAYS.

### LEGEND:

CHIP SEAL + TYPE II SLURRY SEAL)

TYPE II SLURRY SEAL



PARK

### **Z**—+

NO SCALE

HTAON

HTAON

Z



# CITY OF TORRANCE - PUBLIC WORKS DEPARTMENT

## FY 2011-12 SLURRY SEAL PROGRAM, I-119 RESIDENTIAL STREETS DETAIL AREA MAP

### NOTE:

COLLECTION IN THIS AREA ARE ON THURSDAYS. APPLICATION OF SLURRY SEAL IN THIS AREA IS PROHIBITED ON WEDNESDAYS & THURSDAYS. CITY REFUSE AND RECYCLING

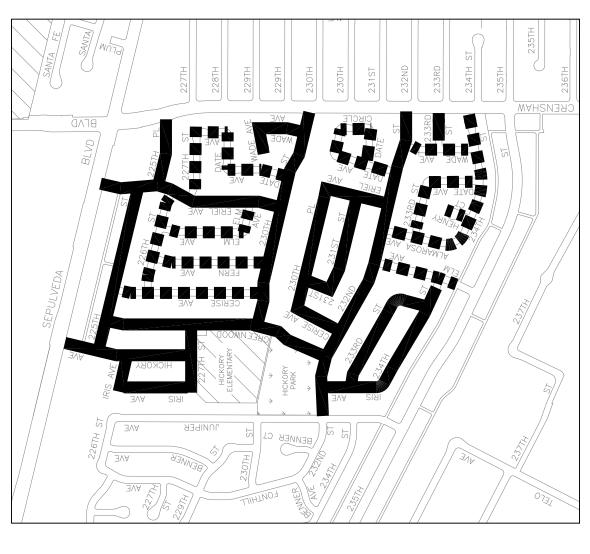
### LEGEND:

CAPE SEAL (CHIP SEAL + TYPE II SLURRY SEAL)

TYPE II SLURRY SEAL

SCHOOL

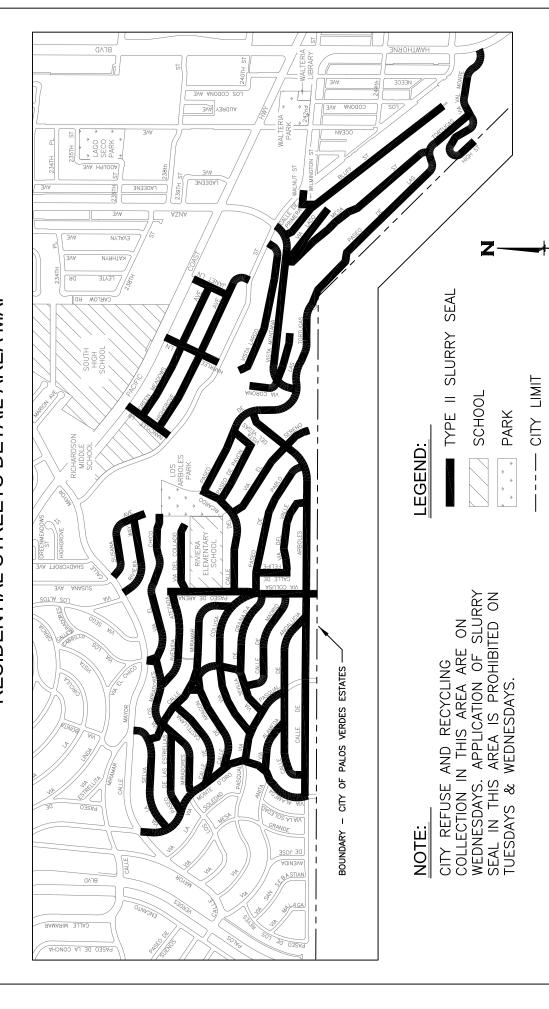
PARK



# CITY OF TORRANCE - PUBLIC WORKS DEPARTMENT



# FY 2011-12 SLURRY SEAL PROGRAM, I-119 RESIDENTIAL STREETS DETAIL AREA MAP



NO SCALE

### **APPENDIX III**

LIST OF RESIDENTIAL STREETS MEASURMENTS
AND
SCHEDULE OF PAVEMENT STRIPING, MARKINGS, AND LEGENDS

AREA A -- RESIDENTIAL STREETS - MEASURMENTS

	CABE	- 0,	SLURRY FROM	FROM	01	EST	EST	AF	AREA CALCULATIONS	NS	TOTAL ABEA*	CAPE	SLURRY
Ö.	SEAL	SEAL	STREET NAME	(NORTH OR WEST LIMIT)	(SOUTH OR EAST LIMIT)	LENGTH (L) [LF]	WIDTH (W) [LF]	AREA (LxW) [SF]	AREA ADJUSTMENT	ADD/ DEDUCT [SF]	[SF]	SEAL [SF]	SEAL ONLY [SF]
-	×		TORRANCE BLVD	ANZA AVE	OCEAN AVE	1,585	25	39,625			39,625	39,625	
2	X		SCOTT ST	ANZA AVE	OCEAN AVE	1,566	31	48,546			48,546	48,546	
3	X		LENORE AVE	ANZA AVE	OCEAN AVE	1,602	32	51,264			51,264	51,264	
4	×		CARMEN ST	LADEENE AVE	TALISMAN ST	762	31	23,622			23,622	23,622	
2	×		MERRILL ST	KENT AVE	OCEAN AVE	515	31	15,965			15,965	15,965	
9		X	CATHANN ST	ANZA AVE	OCEAN AVE	1,612	31	49,972			49,972	-	49,972
7	X		ANZA AVE (EAST FRONTAGE RD)	SCOTTST	LENORE ST	1,188	72	85,536			85,536	85,536	
8	X		ANZA AVE (EAST FRONTAGE RD)	LENORE ST	CARSON ST	1,174	72	84,528			84,528	84,528	-
6	X		ANZA AVE (EAST FRONTAGE RD)	CARSON ST	CATHANN ST	1,265	56	32,890			32,890	32,890	
10	X		MARJORIE AVE	SCOTTST	LENORE ST	1,144	31	35,464			35,464	35,464	-
11	X		MARJORIE AVE	LENORE ST	CARSON ST	1,161	31	35,991			35,991	35,991	
12	X		MARJORIE AVE	CARSON ST	CATHANN ST	1,354	31	41,974			41,974	41,974	
13	×		LADEENE AVE	SCOTTST	LENORE ST	1,106		34,286			34,286	34,286	
14	X		LADEENE AVE	LENORE ST	CARSON ST	1,150	31	35,650			35,650	35,650	-
15	X		LADEENE AVE	CARSON ST	CATHANN ST	1,419	31	43,989			43,989	43,989	
16	X		GRANT AVE	SCOTTST	LENORE ST	1,068	31	33,108			33,108	33,108	
17	X		GRANT AVE	CARSON ST	CATHANN ST	1,493		46,283			46,283	46,283	
18	X		KENT AVE	SCOTTST	LENORE ST	1,029	32	32,928			32,928	32,928	-
19	X		KENT AVE	CARSON ST	MERRILL ST	447	31	13,857	KNUCKLE	1,500	15,357	15,357	
20	X		TALISMAN ST	SCOTTST	LENORE ST	978	31	30,318			30,318	30,318	
21	X		TALISMAN ST	LENORE ST	CARSON ST	1,117	31	34,627			34,627	34,627	
22		×	TALISMAN ST	MERRILL ST	END OF ROAD	125	31	3,875			3,875	-	3,875
23		×	OCEAN AVE	<b>TORRANCE BLVD</b>	LENORE ST	1,261	31	39,091			39,091	-	39,091
24		×	OCEAN AVE	LENORE ST	CARSON ST	1,105	31	34,255			34,255	-	34,255
25		×	OCEAN AVE	CARSON ST	SEPULVEDA BLVD	2,024	31	62,744			62,744		62,744
26		×	SEPULVEDA BLVD (NORTH FRONTAGE RD)	EOP (ANZA AVE)	OCEAN AVE	1,119	26	29,094			29,094	•	29,094
27		×	CARSON ST (SOUTH FRONTAGE RD)	LADEENE AVE	OCEAN AVE	1,018	26	26,468			26,468	•	26,468
28		×	CARSON ST (SOUTH FRONTAGE RD)	MARJORIE AVE	OCEAN AVE	1,321	26	34,346			34,346		34,346
*NOTE	: MEA!	SUREME	*NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.	JONS ONLY.					TOTAL (	TOTAL (AREA A) =	1,081,796	801,951	279,845

<sup>\*</sup>NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.

AREA B -- RESIDENTIAL STREETS - MEASURMENTS

SLURRY	SEAL ONLY [SF]	36,648	33,840	•	19,822		52,544	•	37,136	43,360	46,976	52,352	56,265	47,072	16,256	14,560	9,328		13,824	8,032	22,368	20,484	22,400	18,240	22,400	17,670	22,400	58,560	58,560	58,592	60,423	22,432	17,670	26,550	936,764
CAPE	SEAL [SF]	-	-	51,238	-	46,784	-	57,888			1	•	٠			-	-	58,560	-	-	-	-	-	-	-	-	-	-				-		-	214,470
TOTAL ARFA*	[SF]	36,648	33,840	51,238	19,822	46,784	52,544	57,888	37,136	43,360	46,976	52,352	56,265	47,072	16,256	14,560	9,328	58,560	13,824	8,032	22,368	20,484	22,400	18,240	22,400	17,670	22,400	58,560	58,560	58,592	60,423	22,432	17,670	26,550	1,151,234
SN	ADD/ DEDUCT [SF]								1,200								1,200																		TOTAL (AREA B) =
AREA CALCULATIONS	AREA ADJUSTMENT								KNUCKLE								KNUCKLE																		TOTAL (
AF	AREA (LxW) [SF]	36,648	33,840	51,238	19,822	46,784	52,544	57,888	35,936	43,360	46,976	52,352	56,265	47,072	16,256	14,560	8,128	58,560	13,824	8,032	22,368	20,484	22,400	18,240	22,400	17,670	22,400	58,560	58,560	58,592	60,423	22,432	17,670	26,550	
EST	WIDTH (W) [LF]	24	24	34	34	32	32	32	32	32	32	32	31	32	32	32	32	32	32	32	32	98	32	32	32	31	32	32	32	32	33	32	31	18	
EST	LENGTH (L) [LF]	1,527	1,410	1,507	583	1,462	1,642	1,809	1,123	1,355	1,468	1,636	1,815	1,471	208	455	254	1,830	432	251	669	695	200	220	200	220	200	1,830	1,830	1,831	1,831	701	220	1,475	
01	(SOUTH OR EAST LIMIT)	MAPLE AVE	HICKORY AVE	MAPLE AVE	FONTHILL AVE	MAPLE AVE	HICKORY AVE	CRENSHAW BLVD	FLORWOOD AVE	HICKORY AVE	MAPLE AVE	HICKORY AVE	CRENSHAW BLVD	MAPLE AVE	EL DORADO ST	EL DORADO ST	SONOMA ST	CARSON ST	OPAL ST	ONRADO ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	CARSON ST	CARSON ST	CARSON ST	EL DORADO ST	CARSON ST	MAPLE AVE	
	(NORTH OR WEST LIMIT)	EOP (MADRONA AVE)	MAPLE AVE	MADRONA AVE	MAPLE AVE	MADRONA AVE	MAPLE AVE	HICKORY AVE	MADRONA AVE	FELBAR AVE	MADRONA AVE	MAPLE AVE	HICKORY AVE	MADRONA AVE	OPAL AVE	OPAL AVE	ONRADO ST	TORRANCE BLVD	TORRANCE BLVD	EL DORADO ST	TORRANCE BLVD	SONOMA ST	TORRANCE BLVD	SONOMA ST	TORRANCE BLVD	SONOMA ST	TORRANCE BLVD	SONOMA ST	MADRONA AVE	IONS ONT Y.					
LURRY	STREET NAME	TORRANCE BLVD	TORRANCE BLVD	OPAL ST	OPAL ST	EL DORADO ST	EL DORADO ST	EL DORADO ST	ONRADO ST	ONRADO ST	SONOMA ST	SONOMA ST	SONOMA ST	ANTONIO ST	CORDARY AVE	FLORWOOD AVE	FLORWOOD AVE	MAPLE AVE	FELBAR AVE	FELBAR AVE	FONTHILL AVE	FLOWER AVE	KORNBLUM AVE	JUNIPER AVE	TERIAVE	IRIS AVE	CRANBROOK AVE	HICKORY AVE	GREENWOOD AVE	FERN AVE	ELM AVE	DATE AVE	DATE AVE	CARSON ST (FRONTAGE RD)	*NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.
S	SEAL	×	×		×		×		×	×		×	×	×	×	×	×		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	<b>1SUREME</b>
CAPE				×		×		×										×																	TE: MEA
	S	-	2	3	4	2	9	7	8	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	*NO

<sup>\*</sup>NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.

AREA C -- RESIDENTIAL STREETS - MEASURMENTS

76	SLURRY	SEAL UNLY [SF]	15,900	26,400	28,480	17,400		17,210	•			23,670	19,620	14,340	25,590	30,870	33,350		50,904	46,908	35,710	-	7,200	45,576			42,150	10,288	33,840	27,828		13,510	•	•		47,190	20,488			•	1	634,422
L	CAPE	SEAL [SF]		•		-	26,490		18,430	30,850	38,620		-	-	-	-	-	28,960			-	15,730	-	-	15,690	19,960	-			-	37,740	•	32,148	32,148	19,860			17,425	14,290	17,910	10,620	376,871
	TOTAL AREA*	[SF]	15,900	26,400	28,480	17,400	26,490	17,210	18,430	30,850	38,620	23,670	19,620	14,340	25,590	30,870	33,350	28,960	50,904	46,908	35,710	15,730	7,200	45,576	15,690	19,960	42,150	10,288	33,840	27,828	37,740	13,510	32,148	32,148	19,860	47,190	20,488	17,425	14,290	17,910	10,620	1,011,293
٤	NS	ADD/ DEDUCT [SF]			2,500			1,400	1,300	1,900	6,100	7,050					2,000	5,800			2,800	1,300				4,600		1,000				1,300					1,300	1,405	1,300		5,550	TOTAL (AREA C) =
OIT O ITO TO	AREA CALCULATIONS	AREA ADJUSTMENT			KNUCKLE					KNUCKLE	KNUCKLE	CUL-DE-SAC					KNUCKLE	KNUCKLE (x3)				KNUCKLE				CUL-DE-SAC		KNUCKLE				KNUCKLE					KNUCKLE	KNUCKLE			CUL-DE-SAC	TOTAL (
		AREA (LxW) [SF]	15,900	26,400	25,980	17,400	26,490	15,810	17,130	28,950	32,520	16,620	19,620	14,340	25,590	30,870	31,350	23,160	50,904	46,908	32,910	14,430	7,200	45,576	15,690	15,360	42,150	9,288	33,840	27,828	37,740	12,210	32,148	32,148	19,860	47,190	19,188	16,020	12,990	17,910	5,070	
	EST	WIDTH (W) [LF]	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	36	98	30	30	30	36	30	30	30	36	30	36	30	30	36	36	30	30	36	30	30	30	30	
101	EST	LENGIH (L) [LF]	530	880	866	280	883	527	571	596	1,084	554	654	478	853	1,029	1,045	772	1,414	1,303	1,097	481	240	1,266	523	512	1,405	258	1,128	773	1,258	407	893	893	662	1,573	533	534	433	265	169	
	01	(SOUTH OR EAST	CERISE AVE	ERIEL AVE	HICKORY AVE	CRENSHAW BLVD	ERIEL AVE	GREENWOOD AVE	DATE AVE	ERIEL AVE	230TH ST	230TH ST	FERN AVE	ERIEL AVE	CRENSHAW BLVD	ERIEL AVE	ERIEL AVE	DATE AVE (S)	ELM AVE	CRENSHAW BLVD	234TH ST	DATE AVE	CUL-DE-SAC (E)	ELM AVE	DATE AVE	CUL-DE-SAC (E)	227TH ST	234TH ST	230TH ST	232ND ST	230TH ST	232ND ST	230TH ST	235TH ST	234TH ST	230TH ST	232ND ST	232ND ST	234TH ST	234TH ST	234TH ST	
5	FROM	(NORTH OR WEST LIMIT)	HICKORY AVE	CERISE AVE	227TH ST	ERIEL AVE	CERISE AVE	IRIS AVE	ERIEL AVE	226TH ST	227TH ST	CUL-DE-SAC (N)	GREENWOOD AVE	FERN AVE	ERIEL AVE	CERISE AVE	230TH PL	DATE AVE (N)	JUNIPER AVE	ELM AVE	IRIS AVE	ALMAROSA AVE	WADE AVE	IRIS AVE	ALMAROSA AVE	DATE AVE	SEPULVEDA BLVD	232ND ST	225TH ST	230TH ST	225TH ST	230TH PL	226TH ST	232ND ST	232ND ST	SEPULVEDA BLVD	230TH PL	DATE CR (N)	233RD ST	232ND ST	CUL-DE-SAC (N)	JONS ONLY.
		SIREEI NAME	225TH ST	225TH ST	IRIS AVE	225TH PL	226TH ST	227TH ST	227TH ST	ELM AVE	DATE AVE	WADE AVE	230TH ST	230TH ST	230TH ST	230TH PL	231ST ST	DATE CR	232ND ST	232ND ST	233RD ST	233RD ST	233RD ST	234TH ST	234TH ST	234TH ST	HICKORY AVE	IRIS AVE	GREENWOOD AVE	GREENWOOD AVE	CERISE AVE	CERISE AVE	FERN AVE	ELM AVE	ALMAROSA AVE	ERIEL AVE	ERIEL AVE	DATE AVE	DATE AVE	WADE AVE	HENRY CT	NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.
	<i>y</i> ,	L SEAL	×	×	×	×		×				×	×	×	×	×	×			×			×	×			×	×	×	×		×				×	×					:ASUREME.
		NO. SEAL	1	2	3	4	5 X	9	7 X	× 8	× 6	10	11	12	13	14	15	16 X	17	18	19	20 X	21	22	23 X	24 X	25	26	27	28	29 X	30	31 X	32 X	33 X	34	35	36 X	37 X	38 X	39 X	IOTE: ME

# AREA D -- RESIDENTIAL STREETS - MEASURMENTS

	SLURRY	SEAL ONLY [SF]	58,509	31,680	24,200	22,000	26,335	26,400	31,500	27,160	26,040	20,650	18,090	25,500	22,400	22,400	35,728	29,792	28,014	8,950	50,184	23,240	30,744	42,812	84,384	85,152	36,520	33,750	62,234	33,946	49,040	17,874	38,016	13,980	27,284	36,352	16,610	53,850	35,804	9,620	206,208
	111							-		•		-				•								-				-		-				•					-	•	-
	CAPE	SEAI [SF]	6	(	0	0	2	0	0	0	0	0	(	0	0	0	3	2	+	(	+	0	+	2	t	5	0	0	t	3	C	4	3	0	t	-	0	0	4	0	3
	TOTAL ARFA*	[SF]	58,509	31,680	24,200	22,000	26,335	26,400	31,500	27,160	26,040	20,650	18,090	25,500	22,400	22,400	35,728	29,792	28,014	8,950	50,184	23,240	30,744	42,812	84,384	85,152	36,520	33,750	62,234	33,946	49,040	17,874	38,016	13,980	27,284	36,352	16,610	53,850	35,804	9,620	206.208
	S	ADD/ DEDUCT [SF]																									4,000			6,362	1,200			1500	788		6,082		1,500	788	0
	AREA CALCULATIONS	APJUSTMENT																									CUL-DE-SAC			CUL-DE-SAC	KNUCKLE			KNUCKLE	KNUCKLE		CUL-DE-SAC		KNUCKLE	KNUCKLE	206.208 KNUCKLE (x2)
	ARE	AREA (LxW) [SF]	58,509	31,680	24,200	22,000	26,335	26,400	31,500	27,160	26,040	20,650	18,090	25,500	22,400	22,400	35,728	29,792	28,014	8,950	50,184	23,240	30,744	42,812	84,384	85,152	32,520	33,750	62,234	27,584	47,840	17,874	38,016	12,480	26,496	36,352	10,528	53,850	34,304	8,832	1 806 906
	EST	WIDTH (W)	27	24	22	22	23	22	25	28	21	32	27	30	32	28	28	28	21	25	24	28	28	28	32	32	30	30	29	32	32	27	32	32	32	32	32	30	32	32	32
	EST	LENGTH (L) [LF]	2,167	1,320	1,100	1,000	1,145	1,200	1,260	026	1,240	290	029	820	200	800	1,276	1,064	1,334	358	2,091	830	1,098	1,529	2,637	2,661	1,084	1,125	2,146	862	1,495	662	1,188	390	828	1,136	329	1,795	1,072	276	6 444
ENIS	10	(SOUTH OR EAST LIMIT)	VIA ALAMEDA	CALLE MAYOR	VIA LOS MIRADORES	PASEO DE LA ESTRELLAS	VIA EL CHICO	CALLE MIRAMAR	CALLE MIRAMAR	VIA SEVILLA	PASEO DE GRANDA	CALLE DE ARBOLES	PASEO DE GRANDA	CITY LIMIT (SOUTH)	VIA MONTE D'ORO	CALLE DE ANDALUCIA	VIA PASQUAL	CALLE DE ARBOLES	PASEO DE ARENA	VIA LOS MIRADORES	VIA COLUSA	VIA SEVILLA	VIA COLUSA	VIA COLUSA	VIA COLUSA	PASEO DE LAS TORTUGAS	CUL-DE-SAC (E)	SUSANA AVE	END	CUL-DE-SAC (E)	PASEO DE LAS TORTUGAS	PASEO DE GRANDA	PASEO DE PABLO	VIA DEL VALLE	VISTA DEL VEGAS	CALLE DE ARBOLES	CUL-DE-SAC (E)	CALLE DE ARBOLES	CALLE DE ARBOLES	PASEO DE PAVON	VIA VAI MONTE
SIREEIS - MEASURMENI	FROM	(NORTH OR WEST LIMIT)	CALLE MAYOR	VIA MONTE D'ORO	VIA MONTE D'ORO	VIA MONTE D'ORO	PASEO DE LA ESTRELLAS	VIA MONTE D'ORO	VIA MONTE D'ORO	VIA PASQUAL	VIA SEVILLA	PASEO DE GRANDA	VIA MONTE D'ORO	PASEO DE GRANDA	CITY LIMIT (SOUTH)	VIA MONTE D'ORO	CALLE DE ARBOLES	VIA PASQUAL	VIA LOS MIRADORES	VIA LA SELVA	VIA LOS MIRADORES	VIA PASQUAL		PASEO DE GRANDA	VIA ALAMEDA	VIA COLUSA	CALLE MAYOR		ES	PASEO DE ARENA	PASEO DE ARENA	CALLE MIRAMAR	AVENIDA ATEZADA	PASEO DE PABLO	CALLE DE RICARDO	CALLE DE RICARDO	CALLE DE ARBOLES	VIA COLUSA	CALLE DE FELIPE	PASEO DE LAS TORTUGAS	
RESIDENTIAL STREE		STREET NAME	VIA MONTE D'ORO	VIA LA SELVA	PASEO DE LA ESTRELLAS	VIA LOS MIRADORES	VIA LOS MIRADORES	CALLE DE CASTELLANA	CALLE DE ARAGON	VIA COLUSA	VIA COLUSA	VIA COLUSA	VIA PASQUAL	VIA PASQUAL	VIA ALAMEDA	VIA ALAMEDA	CALLE DE ANDALUCIA	CALLE DE ANDALUCIA	AVENIDA ATEZADA	CALLE MIRAMAR	CALLE MIRAMAR	PASEO DE GRANDA	PASEO DE GRANDA	CALLE DE MADRID	CALLE DE ARBOLES	CALLE DE ARBOLES	SUSANA AVE	RIVIERA WAY	VIA EL CHICO	VIA DEL COLLADO	CALLE DE RICARDO	VIA SEVILLA	PASEO DE ARENA	CALLE DE FELIPE	PASEO DE PAVON	VIA EL SERENO	VIA EL SERENO	PASEO DE PABLO	VIA DEL VALLE	VISTA DEL VEGAS	PASEN DE I AS TORTIIGAS
	SLURRY	SEAL		×	×	×					×					×	×	×				×						×		×	×			×	×	×				×	×
AKEA U	CAPF	SEAL																																							
AH		NO.	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	32	33	34	32	36	37	38	39

\*NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.

TABLE FOR AREA "D" CONTINUES ON NEXT PAGE

# AREA D -- RESIDENTIAL STREETS - MEASURMENTS (CON'T)

SLURRY		STREET NAME	FROM (NORTH OR WEST	TO (SOUTH OR EAST	EST LENGTH (L)	EST WIDTH (W)	ADEA (1 MA)	AREA CALCULATIONS	NS	TOTAL AREA*	CAPE SEAL	SLURRY SEAL ONLY
ONLY			LIMIT)	LIMIT)		[LF]	AKEA (LXW) [SF]	AREA ADJUSTMENT	ADD/DEDUCI [SF]	[SF]	[SF]	[SF]
X VISTA	VISTA	VISTA MONTANA	PASEO DE LAS TORTUGAS	NEWTON ST	2,380	32	76,160			76,160	-	76,160
X VIA C	VIA C	VIA CORONA	CUL-DE-SAC (N)	VISTA MONTANA	351	31	10,881	CUL-DE-SAC	3,849	14,730	-	14,730
X VIA C	VIAC	VIA CORONA	VISTA MONTANA	END	909	16	089'6	GUTTER	-2,280	7,400	-	7,400
X CALI	CALI	CALLE DE PRIMAVERA	VISTA MONTANA	WILMINGTON ST	609	32	19,488			19,488		19,488
X WAL	WAL	WALNUTST	WILMINGTON ST	NEWTON ST	205	20	4,100			4,100		4,100
X WILL	MILI	WILMINGTON STREET	CALLE DE PRIMERA	242ND ST	203	26	5,278			5,278		5,278
X BFN	BLU	BLUFF ST	WILMINGTON ST	CUL-DE-SAC (E)	2,045	32	65,440	CUL-DE-SAC	-251	62,189		65,189
X VIA	VIA	VIA LADO	VISTA MONTANA	END	848	20	16,960	GUTTER	-3,080	13,880		13,880
X MES	ME	MESA ST	VISTA MONTANA	PASEO DE LAS TORTUGAS	2,400	30	72,000			72,000		72,000
X VIA	VIA	VIA VAL MONTE	PASEO DE LAS TORTUGAS	HAWTHORNE BLVD	878	31	27,218	DIVIDER	-525	26,693	-	26,693
X HIG	ЭН	HIGH ST	PASEO DE LAS TORTUGAS	END	187	29	5,423			5,423	-	5,423
X GRI	GRI	GREEN MEADOWS AVE	NANCY LEE LN	HARRLEE LN	1,062	32	33,984			33,984		33,984
X GR	GR	GREEN MEADOWS AVE	HARRLEE LN	JANET LN	840	32	26,880			26,880	-	26,880
NH X	ЭН	HIGHGROVE AVE	NANCY LEE LN	HARRLEE LN	1,110	32	35,520			35,520	-	35,520
SIH X	ЫН	HIGHGROVE AVE	HARRLEE LN	NEWTON ST	1,261	32	40,352			40,352	-	40,352
X NAN	NA	NANCY LEE LN	PACIFIC COAST HWY	NEWTON ST	754	32	24,128			24,128	-	24,128
X HAF	HAF	HARRLEE LN	PACIFIC COAST HWY	NEWTON ST	847	32	27,104			27,104	-	27,104
X JAN	JAN	JANET LN	PACIFIC COAST HWY	HIGHGROVE AVE	515	30	15,450			15,450	-	15,450
SUREMENTS	NTS	*NOTE: MEASUREMENTS SHOWN ARE APPROXIMATIONS ONLY.	JONS ONLY.					TOTAL (	TOTAL (AREA D) =	2,049,775	,	2,049,775

3,900,806 **5,294,098** 1,393,292 GRAND TOTAL (AREAS A THRU D) =

	BLUE MARKER FIRE HYDRANT	LEA 1	1	. 9	2	2		3			2			2			1		_	1					-	1		-			27
	12" YELLOW X-WALK	STD A24E			35																35								28	28	126
	12" WHITE X-WALK	STD A24E																									20				20
NDS	TYPE IV LT OR RT ARROW	STD A24A	[12]																								-				-
LEGE	"KEEP CLEAR" LEGEND	STD A24D																													0
S, AND	"SLOW XING" LEGEND	STD A24D	[12]																										1	1	2
SKING:	"STOP" LEGEND	STD A24D	1	5	4			1	1		1	1	7	1	1						1	1	7		7	7	2		1	2	28
G, MAF	12" WHITE (STOP) LIMIT LINE	STD A24E	1	2	4			1	1		1	l	7	l	1							1	7		7	7	2		l	2	27
RIPIN	8" WHITE CHNL LINE	STD A20D DET 38																													0
INT ST	4" DOUBLE YELLOW LINES	STD A20A DET 22																													0
PAVEMENT STRIPING, MARKINGS, AND LEGENDS	4" YELLOW DASHED CNTR LINE	STD A20A DET 5																													0
OF	TO (SOUTH OR EAST LIMIT)		OCEAN AVE	OCEAN AVE	OCEAN AVE	TALISMAN ST	OCEAN AVE	OCEAN AVE	LENORE ST	CARSON ST	CATHANN ST	LENORE ST	CARSON ST	CATHANN ST	LENORE ST	CARSON ST	CATHANN ST	LENORE ST	CATHANN ST	LENORE ST	MERRILL ST	LENORE ST	CARSON ST	END OF ROAD	LENORE ST	CARSON ST	SEPULVEDA BLVD	OCEAN AVE	OCEAN AVE	OCEAN AVE	TOTAL (AREA A) =
AL STREETS - S	FROM (NORTH OR WEST LIMIT)		ANZA AVE	ANZA AVE	ANZA AVE	LADEENE AVE	KENT AVE	ANZA AVE	SCOTT ST	LENORE ST	CARSON ST	SCOTT ST	LENORE ST	CARSON ST	SCOTT ST	LENORE ST	CARSON ST	SCOTT ST	CARSON ST	SCOTT ST	CARSON ST	SCOTT ST	LENORE ST	MERRILL ST	TORRANCE BLVD	LENORE ST	CARSON ST	END OF ROAD (ANZA AVE)	LADEENE AVE	MARJORIE AVE	
AREA A RESIDENTIAL STREETS - SCHEDULE	NO. STREET NAME		1 TOBRANCE BLVD		3 LENORE AVE	4 CARMEN ST	5 MERRILL ST	6 CATHANN ST	7 ANZA AVE (EAST FRONTAGE RD)	8 ANZA AVE (EAST FRONTAGE RD)	9 ANZA AVE (EAST FRONTAGE RD)	10 MARJORIE AVE	11 MARJORIE AVE	12 MARJORIE AVE	13 LADEENE AVE	14 LADEENE AVE	15 LADEENE AVE	16 GRANT AVE	17 GRANT AVE	18 KENT AVE		20 TALISMAN ST		22 TALISMAN ST	23 OCEAN AVE		25 OCEAN AVE		27 CARSON ST (NORTH FRONTAGE RD)	28 CARSON ST (SOUTH FRONTAGE RD)	

AREA B -- RESIDENTIAL STREETS - SCHEDULE OF PAVEMENT STRIPING, MARKINGS, AND LEGENDS

	BLUE MARKER FIRE HYDRANT		[EA]	4	1	2		1	2	2	2	1	3	1	1	3							1			1					3		2		- 1	3	34
	12" YELLOW X-WALK	STD A24E	[LF]			35		42		64	40				128		06														128	200	96				823
	12" WHITE X-WALK	STD A24E	[LF]	30	09			38	38											150										4							360
)	TYPE IV LT OR RT ARROW	STD A24A	[EA]																	4																	4
	"KEEP CLEAR" LEGEND	STD A24D	[EA]																	3																	က
/)	"SLOW SCHOOL XING" LEGEND	STD A24D	[ EA ]																																		0
)	"STOP" LEGEND	STD A24D	[EA]	1	2	2	_	2	2	က	1	-	2	-	2	2	2			2				1		1		1		က	9	2	9	1	1		54
	12" WHITE (STOP) LIMIT LINE	STD A24E	[EA]			-	-		_	-		1	2	-	1	2				3				1		1		1		က	2		3	1	1		27
	8" WHITE CHNL LINE	STD A20D DET 38	[LF]																	180																	180
)	4" DOUBLE YELLOW LINES	STD A20A DET 22	[ LF ]																	220																	220
	4" YELLOW DASHED CNTR LINE	STD A20A DET 5	[LF]																	150																	750
	TO (SOUTH OR EAST LIMIT)			MAPLE AVE	HICKORY AVE	MAPLE AVE	FONTHILL AVE	MAPLE AVE	HICKORY AVE	CRENSHAW BLVD	FLORWOOD AVE	HICKORY AVE	MAPLE AVE	HICKORY AVE	CRENSHAW BLVD	MAPLE AVE	EL DORADO ST	EL DORADO ST	SONOMA ST	CARSON ST	OPAL ST	ONRADO ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	EL DORADO ST	CARSON ST	CARSON ST	CARSON ST	CARSON ST	EL DORADO ST	CARSON ST	MAPLE AVE	TOTAL (AREA B) =
)	FROM (NORTH OR WEST LIMIT)			EOP (MADRONA AVE)	MAPLE AVE	MADRONA AVE	MAPLE AVE	MADRONA AVE	MAPLE AVE	HICKORY AVE	MADRONA AVE	FELBAR AVE	MADRONA AVE	MAPLE AVE	HICKORY AVE	MADRONA AVE	OPAL AVE	OPAL AVE	ONRADO ST		TORRANCE BLVD	EL DORADO ST	TORRANCE BLVD	SONOMA ST	TORRANCE BLVD	SONOMA ST	TORRANCE BLVD		TORRANCE BLVD		TORRANCE BLVD	TORRANCE BLVD	TORRANCE BLVD	TORRANCE BLVD	SONOMA ST	MADRONA AVE	
	STREET NAME			TORRANCE BLVD	TORRANCE BLVD	OPAL ST	OPAL ST	EL DORADO ST	EL DORADO ST		ONRADO ST	ONRADO ST	SONOMA ST	SONOMA ST	SONOMA ST	ANTONIO ST	CORDARY AVE	FLORWOOD AVE	FLORWOOD AVE		FELBAR AVE	FELBAR AVE		FLOWER AVE			TERI AVE		CRANBROOK AVE	HICKORY AVE	GREENWOOD AVE	FERN AVE	ELM AVE			CARSON ST (FRONTAGE RD)	
	Š.			1	2	က	4	2	9	7	∞	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	

	BLUE MARKER FIRE K HYDRANT	#		1 -	7	2	ဇ	-	2	2	2	1	3		2	2	2	2	4	2	3	2	_	2	2	1	1		2	2	2	1	2	-	1	3	-	1	1	1		29
	12" YELLOW X-WALK	STD A24E	ורו ז										40														30		30	40												140
	12" WHITE X-WALK	STD A24E																									20							45								95
NDS	TYPE IV LT OR RT ARROW	STD A24A	ורעו																								3															က
LEGENDS	"KEEP CLEAR" LEGEND	STD A24D	[ נע																								1															-
S, AND	"SLOW SCHOOL XING" LEGEND	STD A24D	[רא]																																							0
RING	"STOP" LEGEND	STD A24D	6	2		1		1					1	1	2				4	2				-			1		2	-	1			2		4						28
G, MAF	12" WHITE (STOP) LIMIT LINE	STD A24E	6	2		1		1						1	2				8	2				1			2		_		1			1		4						24
STRIPING, MARKINGS,	8" WHITE CHNL LINE	STD A20D DET 38	[ [ [																								115															115
	4" DOUBLE YELLOW LINES	STD A20A DET 22	[ וים ]																								235															235
PAVEMENT	4" YELLOW DASHED CNTR LINE	STD A20A DET 5	[ -]																																							0
SCHEDULE OF PA	TO (SOUTH OR EAST LIMIT)		CERISE AVE	ERIEL AVE	HICKORY AVE	CRENSHAW BLVD	ERIEL AVE	GREENWOOD AVE	DATE AVE	ERIEL AVE	230TH ST	230TH ST	FERN AVE	ERIEL AVE	CRENSHAW BLVD	ERIEL AVE	ERIEL AVE	DATE AVE (S)	ELM AVE	CRENSHAW BLVD	234TH ST	DATE AVE	CUL-DE-SAC (E)	ELM AVE	DATE AVE	CUL-DE-SAC (E)	227TH ST	234TH ST	230TH ST	232ND ST	230TH ST	232ND ST	230TH ST	235TH ST	234TH ST	230TH ST	232ND ST	232ND ST	234TH ST	234TH ST	234TH ST	TOTAL (AREA C) =
STREETS -	FROM (NORTH OR WEST LIMIT)		HICKORY AVE	CERISE AVE	227TH ST	ERIEL AVE	CERISE AVE	IRIS AVE	ERIEL AVE	226TH ST	227TH ST	CUL-DE-SAC (N)	GREENWOOD AVE	FERN AVE	ERIEL AVE	CERISE AVE	230TH PL	DATE AVE (N)	JUNIPER AVE	ELM AVE	IRIS AVE	ALMAROSA AVE	WADE AVE	IRIS AVE	ALMAROSA AVE	DATE AVE	SEPULVEDA BLVD	232ND ST	225TH ST	230TH ST	225TH ST	230TH PL	226TH ST	232ND ST	232ND ST	SEPULVEDA BLVD	230TH PL	DATE CR (N)	233RD ST	232ND ST	CUL-DE-SAC (N)	
AREA C RESIDENTIAL	STREET NAME		225TH ST		IRIS AVE	225TH PL	226TH ST			ELM AVE		WADE AVE		230TH ST	230TH ST			DATE CR		232ND ST	233RD ST						/ AVE			D AVE		CERISE AVE	FERN AVE		ALMAROSA AVE							
ARE	Ŏ.		-		3	4	2	9	. 7	8		10		12	13	14	15		17	18					23								31	32								ĵ

AREA D	RESIDENTIAL	STREETS -	SCHEDULE OF PA	PAVEMENT	NT ST	RIPING	STRIPING, MARKINGS, AND	KINGS	s, AND	LEGENDS	NDS			
NO.	STREET NAME	FROM (NORTH OR WEST LIMIT)	TO (SOUTH OR EAST LIMIT)	4" YELLOW DASHED CNTR LINE	4" DOUBLE YELLOW LINES	8" WHITE CHNL	12" WHITE (STOP) LIMIT LINE	"STOP" LEGEND	"SLOW SCHOOL XING" LEGEND	"KEEP CLEAR" LEGEND	TYPE IV LT OR RT ARROW	12" WHITE X-WALK	12" YELLOW X-WALK	BLUE MARKER FIRE HYDRANT
				STD A20A DET 5	STD A20A DET 22	STD A20D DET 38	STD A24E	STD A24D	STD A24D	STD A24D	STD A24A	STD A24E	STD A24E	[EA]
1 VIA MONTE D'ORO	TE D'ORO	CALLE MAYOR	VIA ALAMEDA		1495	<u>.</u>	1	-	į		5			7
2 VIA LA SELVA	LVA	VIA MONTE D'ORO	CALLE MAYOR				က	က						2
3 PASEO DE L	PASEO DE LA ESTRELLAS	VIA MONTE D'ORO	VIA LOS MIRADORES											2
	VIA LOS MIRADORES	VIA MONTE D'ORO	PASEO DE LA ESTRELLAS				1	_						1
	VIA LOS MIRADORES	PASEO DE LA ESTRELLAS	VIA EL CHICO				3	3						-
	CALLE DE CASTELLANA	VIA MONTE D'ORO	CALLE MIRAMAR				•							,
	CALLE DE ARAGON	VIA MONTE D'ORO	CALLE MIRAMAR				2	2						2
8 VIA COLUSA	ISA	VIA PASQUAL	VIA SEVILLA				•	c					007	- 0
9 VIA COLUSA	NO.	DASEO DE CEVANDA	PASEU DE GRANDA					7					130	7 6
	101	VIA MONTE D'ORO	PASEO DE GRANDA				-	7 -					071	ر د
	UAL	PASEO DE GRANDA	CITY LIMIT (SOUTH)				-	-						2
	EDA	CITY LIMIT (SOUTH)	VIA MONTE D'ORO		650		2	2						-
14 VIA ALAMEDA	EDA	VIA MONTE D'ORO	CALLE DE ANDALUCIA											
15 CALLE DE	CALLE DE ANDALUCIA	CALLE DE ARBOLES	VIA PASQUAL				-	1						2
	CALLE DE ANDALUCIA	VIA PASQUAL	CALLE DE ARBOLES				2	2						1
	ATEZADA	VIA LOS MIRADORES	PASEO DE ARENA		20		_	_						2
	RAMAR	VIA LA SELVA	VIA LOS MIRADORES				3	2						1
T	RAMAR	VIA LOS MIRADORES	VIA COLUSA				4	4						3
	PASEO DE GRANDA	VIA PASQUAL	VIA SEVILLA											1
	PASEO DE GRANDA	VIA SEVILLA	VIA COLUSA					-					92	-
22 CALLE DE MADRID	: MADRID	PASEO DE GRANDA	VIA COLUSA				_	_						က
	CALLE DE ARBOLES	VIA ALAMEDA	VIA COLUSA				4	4						4
	CALLE DE ARBOLES	VIA COLUSA	PASEO DE LAS TORTUGAS				4	4				100		9 .
	AVE	CALLE MAYOR	CUL-DE-SAC (E)				,	- ,				100		
27 VIA EL CHICO	WAY	VIA LOS MIDADODES	SUSAINA AVE											- u
	OLLADO	PASEO DE ARENA	CUL-DE-SAC (E)				-	-	-				145	0 0
	CALLE DE RICARDO	PASEO DE ARENA	PASEO DE LAS TORTUGAS		70			-	2				225	l m
	LA	CALLE MIRAMAR	PASEO DE GRANDA				3	3						
	E ARENA	AVENIDA ATEZADA	PASEO DE PABLO		815			1					110	2
32 CALLE DE FELIPE	: FELIPE	PASEO DE PABLO	VIA DEL VALLE		40									
	E PAVON	CALLE DE RICARDO	VISTA DEL VEGAS											1
	RENO	CALLE DE RICARDO	CALLE DE ARBOLES				1	2					80	1
	RENO	CALLE DE ARBOLES	CUL-DE-SAC (E)				_	_						_
36 PASEO DE PABLO	E PABLO	VIA COLUSA	CALLE DE ARBOLES				_	2					06	လ
	ALLE	CALLE DE FELIPE	CALLE DE ARBOLES		40		_	_						1
	L VEGAS	PASEO DE LAS TORTUGAS	PASEO DE PAVON				_	-						-
39 PASEO DE LAS T	PASEO DE LAS TORTUGAS	CALLE DE RICARDO	VIA VAL MONTE		6240		٠ -	٠ 2				120		12
NOTE: ALL PAVI	EMENT STRIPING, MAI	NOTE: ALL PAVEMENT STRIPING, MARKINGS, AND LEGENDS ARE PER THE LATEST CALTRANS STANDARD PLANS, UNLESS OTHERWISED NOTED	RE PER THE LATEST CALT	RANS STAI	NDARD PLA	NS, UNLES	S OTHERW	ISED NOTI						2

AREA D -- RESIDENTIAL STREETS - SCHEDULE OF PAVEMENT STRIPING, MARKINGS, AND LEGENDS (CON'T)

Ŏ.	STREET NAME	FROM (NORTH OR WEST LIMIT)	TO (SOUTH OR EAST LIMIT)	4" YELLOW DASHED CNTR LINE	4" DOUBLE YELLOW LINES	8" WHITE CHNL LINE	12" WHITE (STOP) LIMIT LINE	"STOP" LEGEND	"SLOW SCHOOL XING" LEGEND	"KEEP CLEAR" LEGEND	TYPE IV LT OR RT ARROW	12" WHITE X-WALK	12" YELLOW X-WALK	BLUE MARKER FIRE HYDRANT
				STD A20A	STD A20A	STD A20D	STD A24E	STD A24D	STD A24D	STD A24D	STD A24A	STD A24E	STD A24E	
				DET 5 [LF]	DET 22 [ LF ]	DET 38 [LF]	[EA]	[EA]	[ EA ]	[EA]	[EA]	[4]	[LF]	[EA]
41	VISTA MONTANA	PASEO DE LAS TORTUGAS	NEWTON ST		2250		1	-				175		
42	VIA CORONA	CUL-DE-SAC (N)	VISTA MONTANA				1	1						
43	VIA CORONA	VISTA MONTANA	END				1	_						
44	CALLE DE PRIMAVERA	VISTA MONTANA	WILMINGTON ST				1	1						
45	WALNUT ST	WILMINGTON ST	NEWTON ST				1	-						-
46	WILMINGTON STREET	CALLE DE PRIMERA	242ND ST											1
47	BLUFFST	WILMINGTON ST	CUL-DE-SAC (E)											4
48	VIA LADO	VISTA MONTANA	END				1	1						2
49	MESA ST	VISTA MONTANA	PASEO DE LAS TORTUGAS		2300		2	2						2
20	VIA VAL MONTE	PASEO DE LAS TORTUGAS	HAWTHORNE BLVD		006		2	2				45		4
21	HIGH ST	PASEO DE LAS TORTUGAS	END											
25	GREEN MEADOWS AVE	NANCY LEE LN	HARRLEE LN				1	1	1				80	1
23	GREEN MEADOWS AVE	HARRLEE LN	JANET LN				1	1						2
54	HIGHGROVE AVE	NANCY LEE LN	HARRLEE LN				1	1	1				80	1
22	HIGHGROVE AVE	HARRLEE LN	NEWTON ST				2	2						2
26	NANCY LEE LN	PACIFIC COAST HWY	NEWTON ST					1	3				210	3
22	HARRLEE LN	PACIFIC COAST HWY	NEWTON ST				3	3						2
28	JANET LN	PACIFIC COAST HWY	HIGHGROVE AVE				_	_						3
			TOTAL (AREA D) =	0	14,850	0	7	62	œ	0	0	440	1,365	118

246	
2,454	
915	
8	
4	
10	
189	
149	
295	
15,635	
052	
SRAND TOTAL (AREAS A THRU D) =	

CITY PARKING FACILITIES (8 LOCATIONS)

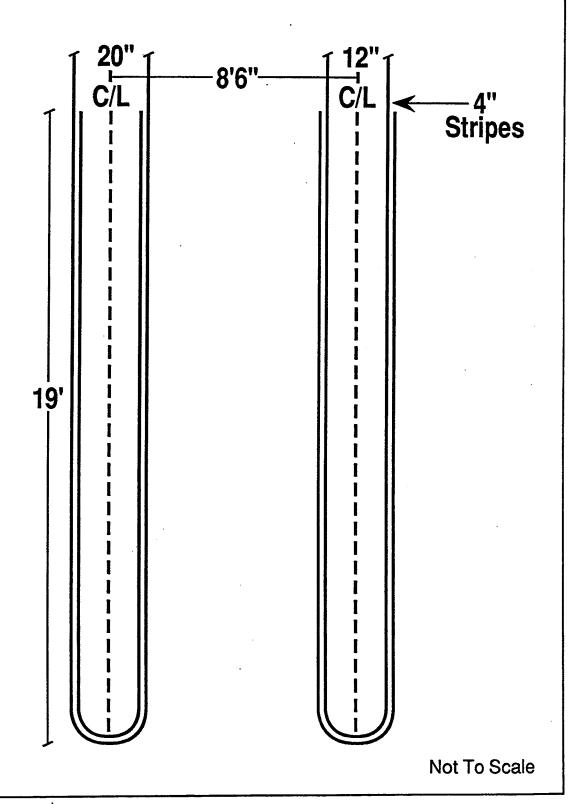
AREA MEASUREMENTS & WHEEL STOP INVENTORY

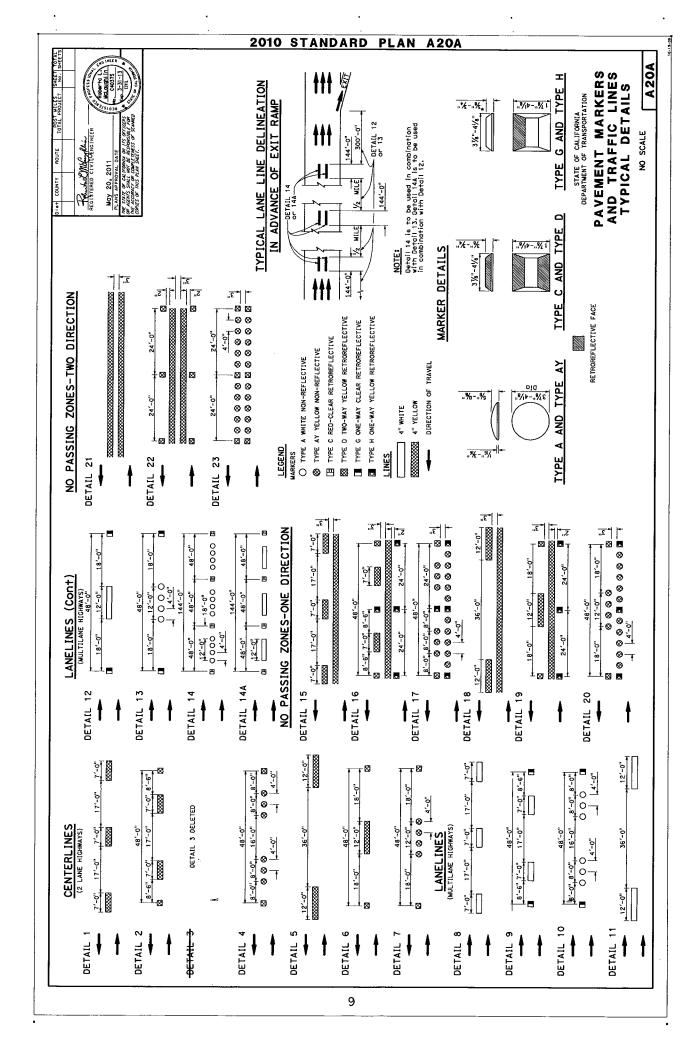
					WHEEL STOPS	STOPS	
NO.	FACILITY NAME	AREA (SLURRY SEAL)	CRACK	CONCRETE WHEEL STOPS TO REMAIN IN PLACE	REMOVE, STORE, AND RE-INSTALL EXIST	REMOVE EXIST WOOD WHEEL STOPS	INSTALL NEW CONCRETE WHEEL STOPS
		[SF]	[YES/NO]	[YES/NO]	[ EA ]	[LF]	[EA]
1	CITY YARD - VEHICLE PARKING AREA (WEST)	116,000	ON	YES	0	0	0
2	CITY YARD - EMPLOYEE PARKING AREA (NORTH)	119,000	ON	ON	23	0	5
3	CITY HALL - EMPLOYEE PARKING AREA (NORTH)	000'29	ON	ON	40	90	25
4	VICTOR PARK / HENDERSON LIBRARY	26,700	YES	YES	0	0	5
2	LAGO SECO PARK	24,700	NO	ON	0	0	0
9	WALTERIA PARK / WALTERIA LIBRARY	11,900	YES	YES	0	0	0
2	COLUMBIA PARK - PARKING AREA "A"	21,500	YES	ON	0	0	0
8	COLUMBIA PARK - PARKING AREA "F"	43,000	YES	ON	0	0	0
	TOTAL =	429,800	-	-	63	50	35

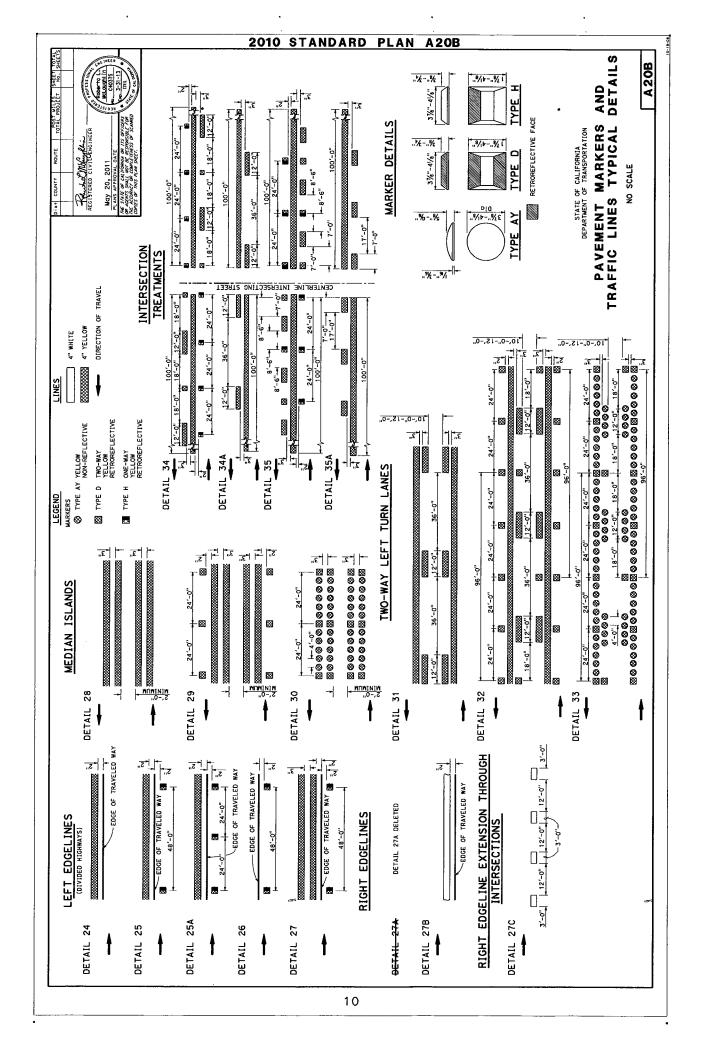
### **APPENDIX IV**

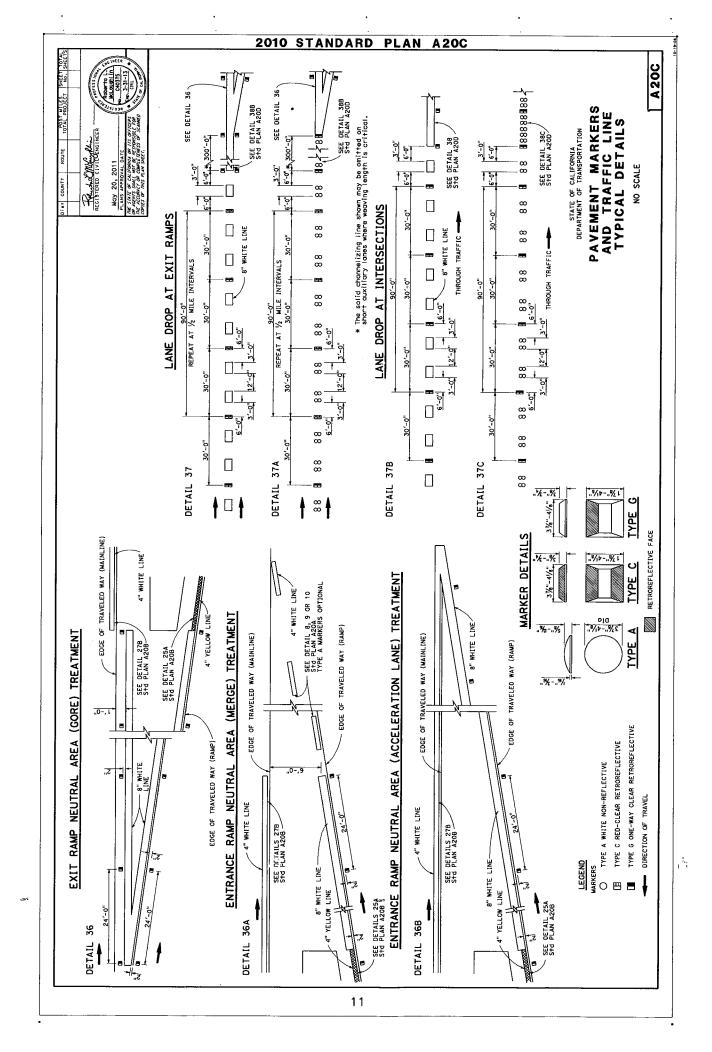
CITY OF TORRANCE AND CALTRANS STANDARD PLANS FOR PAVEMENT MARKINGS

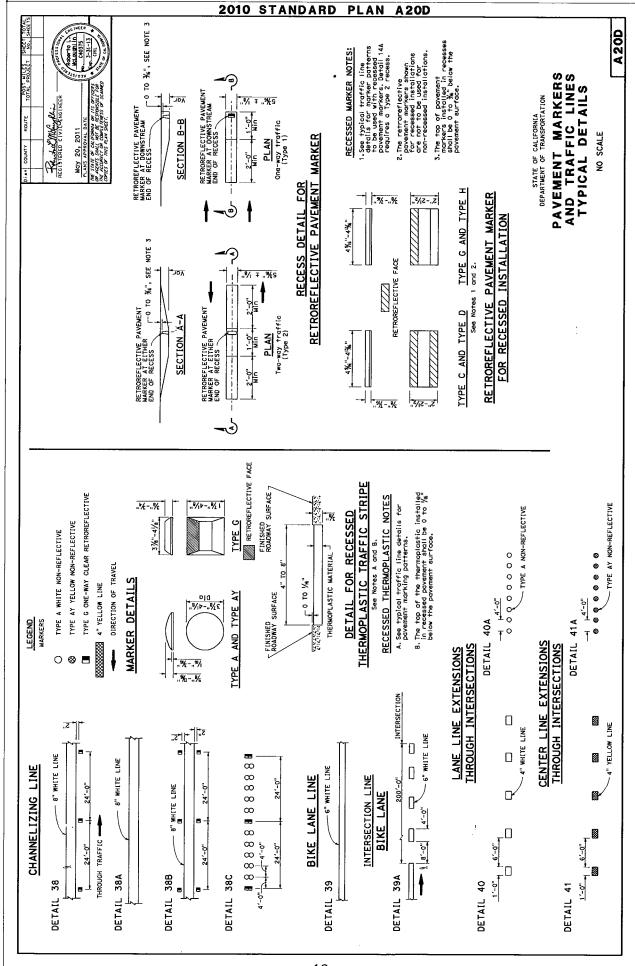
### CITY OF TORRANCE STANDARD PARKING STRIPING

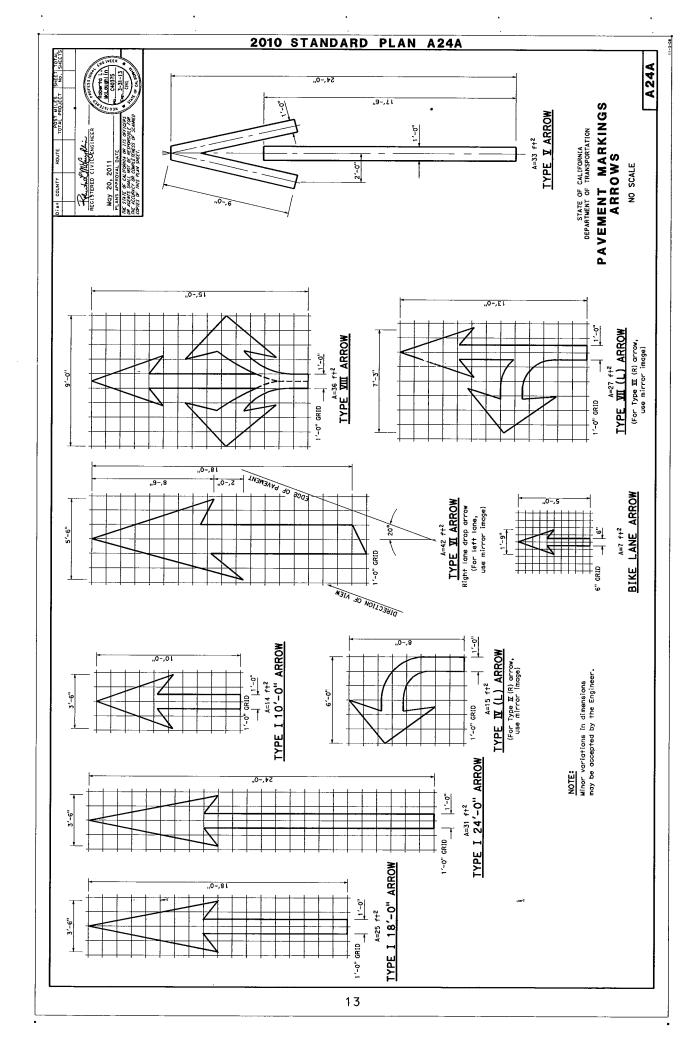


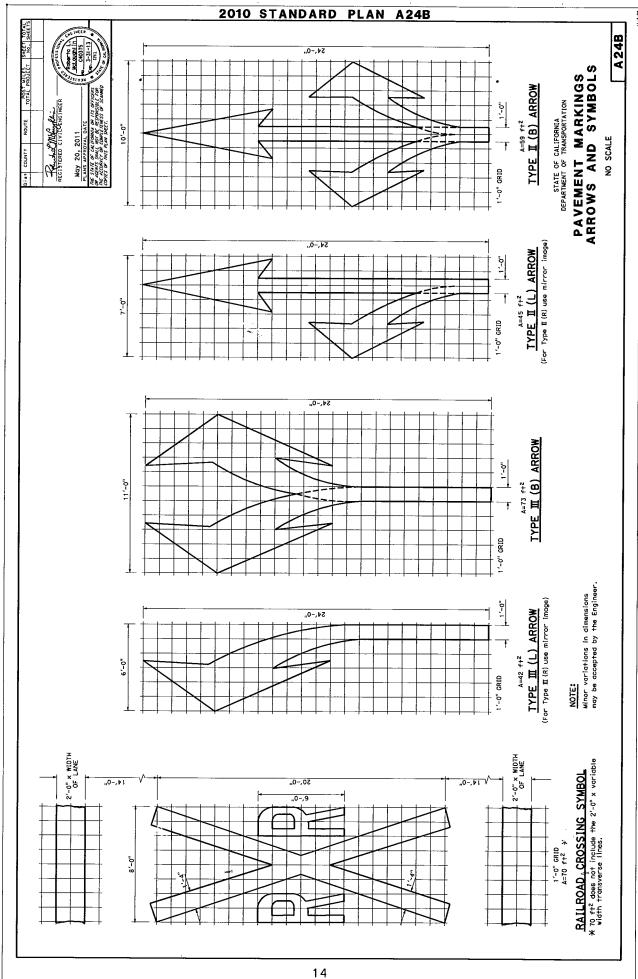


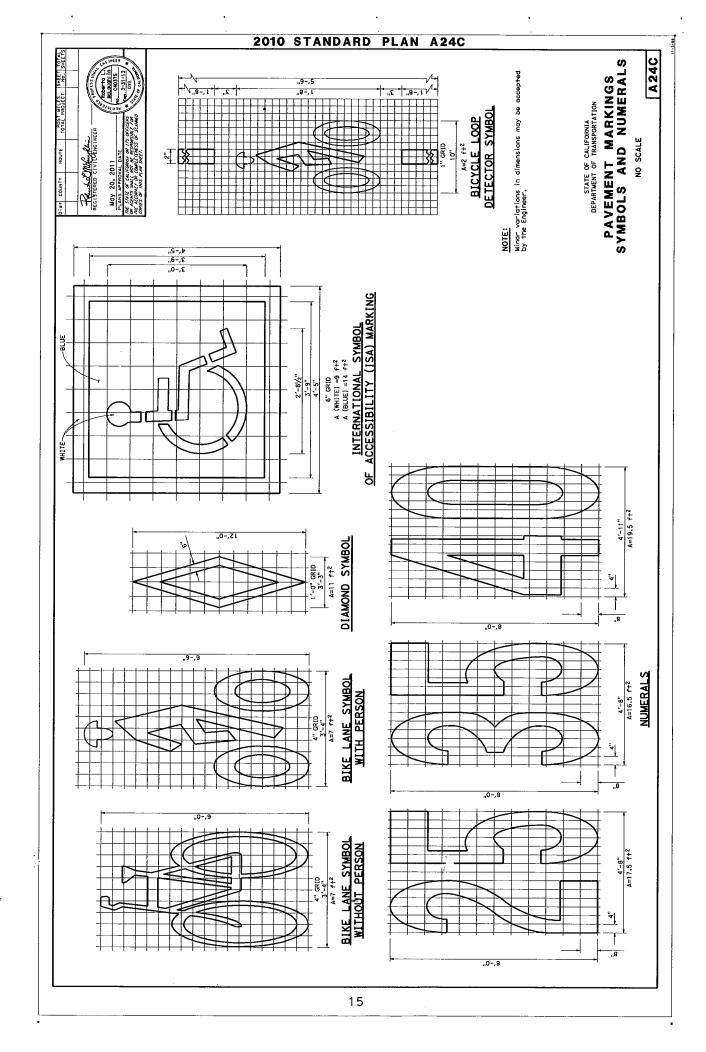


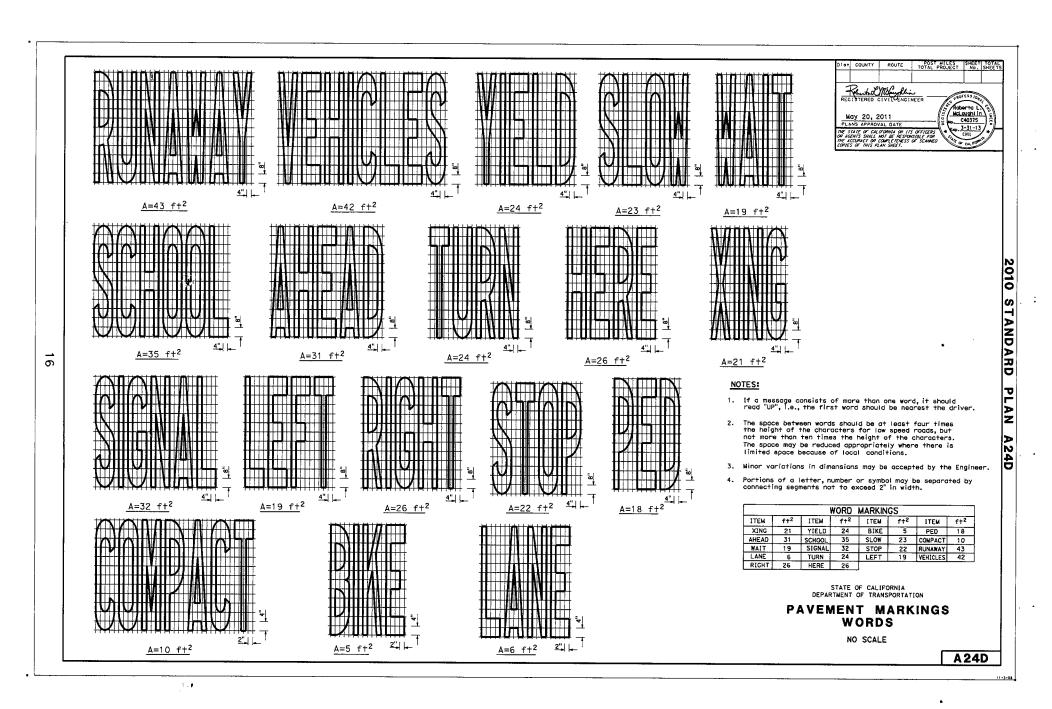




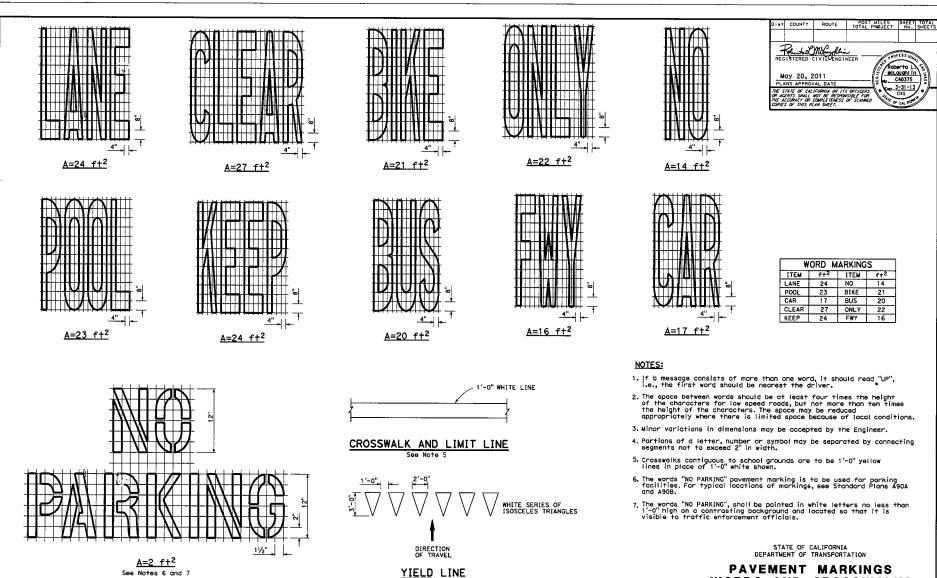












A 24E

WORDS AND CROSSWALKS
NO SCALE

11-3-05

### **APPENDIX V**

### **CAPE SEAL SPECIFICATIONS**

### **CAPE SEAL SPECIFICATIONS**

### I. **GENERAL**

"Cape Seal" shall mean a Chip Seal, overlaid with Type II Slurry Seal per Section II below.

The Work shall be performed or executed in accordance with the latest editions of the Standard Specifications for Public Works Construction (SSPWC "Greenbook"), hereinafter referred to as the Standard Specifications, the project Specifications and Special Provisions, and as directed by the Engineer.

Unless otherwise directed by the Engineer, the Contractor shall make the determination as to the suitability of the weather for applying the asphaltic emulsion. The parameters for suitability of weather shall be per the Standard Specifications. No additional payments will be made for the costs associated with unsuitable workdays because of weather.

### II. SLURRY SEAL

Slurry Seal for the Cape Seal shall be Type II, with 2½% latex, as described in the project specifications.

The cost for furnishing and applying the Slurry Seal over the Chip Seal shall be included in the unit price paid for Cape Seal.

### III. CHIP SEAL

### A. General

The work shall consist of furnishing all necessary labor, materials, tools, equipment, and incidentals to perform and execute Chip Seal Work, and shall include transporting and spreading of emulsified asphalt, 5/16" x No. 8 premium screening aggregate, and water, and spreading the mixture on pavement areas as listed in the Appendices, as specified in the Standard Specifications Section 302-2, "CHIP SEAL," these Special Provisions, and as directed by the Engineer.

The work shall be done in the following order: preparing the pavement surface; applying the emulsion; applying the aggregate; and sweeping up the excess aggregate.

The Contractor shall apply the Slurry Seal within a minimum of one (1) calendar day to a maximum of four (4) calendar days after completing Chip Seal application.

The cost for furnishing and applying the Chip Seal shall be included in the unit price paid for Cape Seal.

### B. Material

### **Polymer Modified Emulsion:**

The Contractor shall submit a certificate of compliance from the supplier that the Chip Seal materials meet these specifications. The certificate of compliance shall be from an independent testing laboratory, accredited in accordance with ASTM D3666.

The Contractor shall submit certification that the emulsion meets the requirements of the formulation specified and shall be supported with certified and documented run sheets, when requested, for each load delivered to the job site. The emulsion supplier shall supply certifications from the manufacturers of the recycling agent and the polymer identifying the product and supplier as specified above.

Requirements for Polymer Modified Asphaltic Emulsion

Туре	Cationic			
Grade	PMCRS2		PMCRS2h	
Properties	MIN	MAX	MIN	MAX
Tests on Emulsions:				
Viscosity, SSF @ 50 degrees Centigrade, sec	75	300	75	300
Settlement, 5 days, %	-	5		5
Storage Stability, 1 day, %	-	1		1
Sieve Test, %	-	0.30		0.30
Demulsibility, %	40		40	
Particle Charge	Positive		Positive	
Ash Content, % <sup>a</sup>		0.2		0.2
Residue by Evaporation, % d	65		65	
Test on Residue from Evaporation Test:				
Penetration, 25 degrees Centigrade b	100	200	40	90
Ductility, 25 degrees Centigrade, mm <sup>c</sup>	400		400	
and either:				
Torsional Recovery, % <sup>e</sup>	18		18	
or				
Polymer Content, % <sup>f</sup> (by weight)	2.5		2.5	

a ASTM Designation: D 3723

When Test for polymer content of polymer modified asphaltic emulsion is used, see sampling requirements in Section 94-1.03, "Sampling."

### C. Preparation

- 1. Prior to the start of Chip Seal Work, all debris vegetation and other organic matter shall be removed from the surfaces to receive chip sealing.
- 2. Herbicide shall be applied to project areas at least 10 days prior to the Chip Seal operation, or as directed by the manufacturer of the approved herbicide. The Contractor shall submit for approval, a herbicide product that is certified for use in the State of California for the specific use intended. The application of the herbicide shall be performed in accordance with all applicable regulations. Any and all fines or clean-up costs for unlawful misuse or improper discarding of herbicides shall be the sole responsibility of the Contractor. Mixtures and spread rates for the herbicides shall be determined by the manufacturer's specifications. Wash down of equipment or discarding of herbicides shall not enter the catch basins or positive drainage facilities.
- 3. Prior to the Chip Seal operation, the Contractor shall remove all existing pavement striping, marking, and legends, and raised pavement markers within the Chip Seal limits. When removing the raised pavement markers the Contractor shall remove excessive adhesive left on pavement caused from the removal of raised pavement

D AASHTO Designation: T 49

<sup>&</sup>lt;sup>c</sup> AASHTO Designation: T 51

California Test 331

e California Test 332

California Test 401

markers. Removal shall be done to the satisfaction of the Engineer. If any pavement damage (potholes) caused by removing raised pavement markers shall be-filled with material approved by Engineer.

- 4. Prior to the Chip Seal operation, all manhole covers, drain inlet covers, monument covers and all other utility covers shall be protected from the Contractor's Chip Seal operations by applying a sheet of plastic, cut to fit or placing a plastic bag over the exposed facilities or other methods approved by the Engineer. All traces of plastic, residual emulsion and chips shall be removed from all manhole covers, drain inlet covers, monument covers and all other utility covers as quickly as possible, after the application of the chip seal and/or prior to final acceptance of the project.
- 5. Immediately prior to the chip sealing operations, the contractor shall sweep the entire surface with vacuum assisted power brooms. The contractor may be permitted to kick sweep/broom when approved by the Engineer.
- Immediately prior to the Chip Seal, the Contractor shall sweep the entire pavement surface with vacuum assisted power brooms. Flushing with water may be required in some areas, if determined by the Engineer.
- 7. The Contractor shall wait a minimum of 24 hours after the Chip Seal is applied before applying the Slurry Seal.
- 8. Notification shall per the project Specifications, and as directed by the Engineer.

### D. Application

- 1. The Chip Seal shall be applied when atmospheric temperature is above 60 degrees Fahrenheit, the weather forecast calls for sun and temperature highs over 60 degrees Fahrenheit, and no rain for the 24-hours after the Chip Seal has been applied. Should rain fall within the 24 hour period after the application of the Chip Seal, the Contractor shall be required to repair and reapply Chip Seal at its own expense. The temperature of the emulsion at the time of application shall be between 120 degrees Fahrenheit and 160 degrees Fahrenheit. The rate of emulsion application shall be an average of 0.32 gallons per square yard.
- 2. Immediately following the application of emulsion, aggregate at a rate of 18 to 25 pounds per square yard shall be spread evenly by a mechanical spreader. The rate shall be adjusted up or down so that no bleed through occurs during rolling. The mechanical spreader shall be controlled in a manner so as to avoid applying emulsion on adjacent concrete surfaces. The Contractor shall remove all emulsion that runs on adjacent concrete surfaces each day before he continues to the next street.
- Two self-propelled pneumatic-tire rollers shall roll the aggregate immediately after application. Each roller shall carry a minimum loading of 3,000 pounds. Each tire shall be inflated to a pressure of 100 +/- 5 psi.
- 4. The Contractor shall power sweep project area before the end of the day, after Chip Seal application, to remove all loose rocks and material. During the sweeping process the Contractor shall also use a backpack blower to clean all driveways, gutters and sidewalks of excess loose rock, at the end of each day, until the street is Slurry Sealed. Power sweeping and backpack blowing of project area will be

- required at least once daily, following the Chip Seal application, until the Slurry Seal is applied.
- Curing time of the Chip Seal shall be as recommended by the manufacturer and/or the Engineer, such that the street may be open to traffic one hour after rolling material, without damage to the surfacing.
- 6. Power sweeping shall be done before the end of the day after chip seal operation to pick up any loose rocks. During the sweeping process the Contractor shall use a backup blower to clear driveways, gutter and sidewalks of excess aggregate at the end of each day until the road is chip sealed.

### E. Protection

- 1. Unnecessary traffic shall be kept off prepared surfaces. Equipment used for transporting materials over prepared surfaces shall be equipped with pneumatic tires.
- 2. When, in the opinion of the Engineer, the weather will not allow satisfactory results to be obtained, operations shall be suspended until the weather is favorable.
- The Contractor shall exercise care in the rolling operations not to damage any concrete or other work in place. In case of any damage, the contractor will be held liable for damage caused by him.

### F. Clean-Up

- After the Work is complete, excess material shall be removed and stockpile areas shall be cleaned of aggregate with vacuum assisted power brooms and left in a condition acceptable to the Engineer.
- The Contractor shall provide for sweeping of all pavements surfaces that have been chipped sealed at least once per week for 4 weeks following completion of Chip Seal operations. Sidewalks and private property, landscaping, and other areas shall be cleaned of excess chip and debris during this period.

### IV. EQUIPMENT SPECIFICATIONS

- 1. An asphalt distributor for application of the emulsion shall have a full circulation spray bar that is adjustable to at least sixteen (16) feet wide in two (2) feet increments and capable of heating and circulating the emulsion simultaneously. It must have computerized rate control for adjusting and controlling the application from the cab that is adjusting by .01 gallons per square yard increments. The distributor shall also be equipped with a volume measuring device and a thermometer for measuring the emulsion temperature in the tank.
- 2. A self-propelled aggregate spreader with front discharge that can evenly distribute aggregate from ten (10) to twenty (20) pounds per square yard. Equipped with computerized rate control.
- 3. Two (2) pneumatic rollers weighing at least five (5) tons each.
- 4. Two (2) mechanically powered pick-brooms equipped with the vacuum type suction, for sweeping up excess aggregate.

5. A back blower for the removal of excess aggregate from the driveway, gutter and sidewalk during the sweeping operations.

### V. <u>MEASURMENT AND PAYMENT</u>

Cape Seal will be measured by the square foot (SF).

Quantities shown in the Bidder's Proposal are based on estimated measurements of the project areas and are approximations only. Payment will be made for the actual measured areas which Cape Seal was completely installed on.

Payment for furnishing, preparing and placing Cape Seal, complete, will be made at the Contract Unit Price per square foot bid for "CAPE SEAL," in Bidder's Proposal, and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work involved in the application of Cape Seal, including the complete installation of Chip Seal and Slurry Seal; cleaning and sweeping of all work area, as required; all work area and pavement surface preparations; protection of manholes, valve boxes, drop inlets and other service entrances; and site clean-up, as specified in the Specifications, and these Special Provisions, and as directed by the Engineer.